Modifications

10

Section 10

describes subsequent modifications in the machine resulting from technical changes.

Section 10

Modifications

List of Contents

1 Hardware Modifications

No.	Device	DD+DIS	Date of Issue
1.1	Reset/Power On LED	DD+DIS034.99E	02/1999

2 Software – Modifications

No.	Software Version	DD+DIS	Date of Issue
2.1	Upgrade to PRID 1.1.05	DD+DIS138.98E	11/1998
2.2	Upgrade to VIPS 1.0.05	DD+DIS139.98E	11/1998
2.3	Upgrade to PRID 1.1.07	DD+DIS095.99E	05/1999
2.4	Upgrade to VIPS 1.0.09	DD+DIS096.99E	05/1999
2.5	Upgrade to PRID 1.1.10	DD+DIS048.00E	04/2000
2.6	Upgrade to VIPS 1.1.05	DD+DIS180.00E	05/2000
2.7	Upgrade to PRID 1.1.11	DD+DIS238.00E	09/2000
2.8	Upgrade to VIPS 1.1.09	DD+DIS334.00E	01/2001
2.9	Upgrade to PRID 1.2.07	DD+DIS069.01E	03/2001
2.10	Upgrade to PRID 1.2.09	DD+DIS196.01E	08/2001
2.11	Upgrade to VIPS 1.1.11	DD+DIS142.01E	12/2001
2.12	Upgrade to PRID 1.2.11	DD+DIS261.01E	02/2002

Section 10

1.1
Hardware Installation of Reset/Power On LED

DD+DIS034.99E

ENCLOSURE 02 / 99 DD+DIS034.99E *1TLKTM1* 1 Piece 1 TLKTM MA 1	ADCC ID-Tablet Type 4406 / 841 Reset / Power On LED for PRID

Installation of

EB+44060655 Reset / Power On LED

for PRID

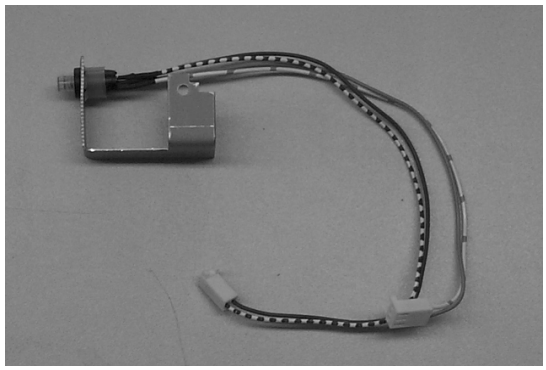
Type
4406 / 841

1 Scope of delivery

EB+44060655 LED / Reset switch with cables

2 Fitting instructions

- Assemble the reset / power-on LED as shown beside



- Disconnect the ID – Tablet from the mains.
- Loosen the screws of the cover of the ID tablet and remove the metal panels.

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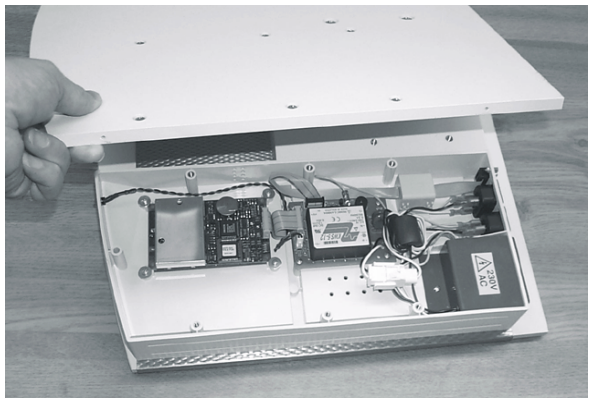
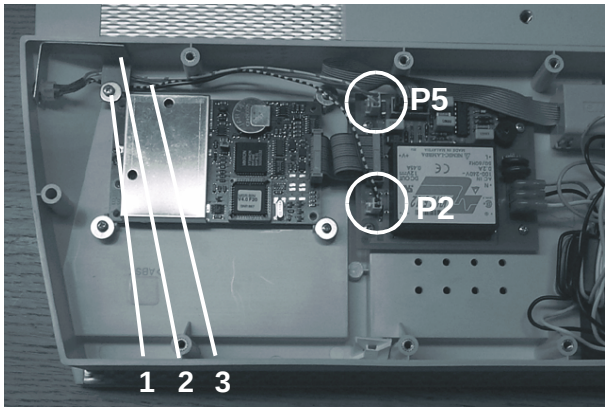
- Lift the cover off

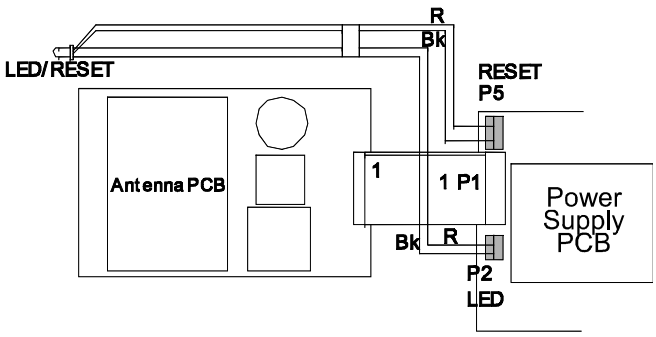


- Loosen the screw (1)
- Insert the assembled reset/power-on LED (2)
- Thread the cable below the holding bracket (3)
- Fix the assembled reset/power-on LED by means of the screw (1)
- Plug the reset/power-on LED into the Power Supply Board (P2) and (P5)
  (2-pin plug into P2, 3-pin plug into P5)

  Note: Older Power Supply PCBs do not have P5. Just leave the cable unconnected.

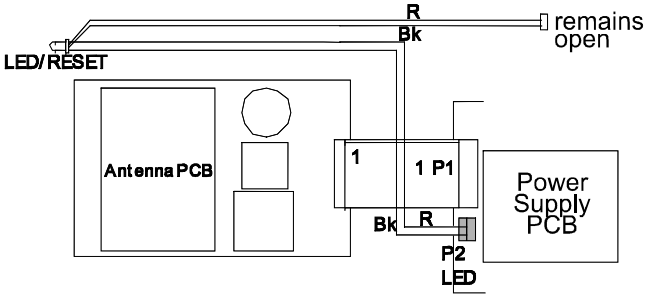


1. Make sure that the cables of the reset/power on LED are plugged into the Power Supply Board in the way shown beside.



With new Power Supply PCB

2. Older ID-tablets do not have a **P5** connector on the Power Supply PCB. Therefore the reset function is **not** available with those machines.



With old Power Supply PCB

Section 10

2.1
Software Installation
Upgrade to PRID1.1.05

DD+DIS138.98E

MED CSO Customer Support Operations

Technical Documentation

Order-No.: DD+DIS138.98E

1 Piece Q6K8U MA1

November 98

ADC COMPACT
Type 5145

Modification instruction

Please file this document in section 10
of the Technical Documentation ADC COMPACT

Upgrade from PRID1.1.02 to PRID1.1.05

List of contents

1. General information

1.1 Software prerequisites:

DIGITIZER:	**≥ COP_1111**
(V)DIPS	**≥ DIPS1.0.05**

1.2 Required time for the Upgrade

less than 15 minutes

1.3 Order No.: EB+44060635

Contents of delivery Software Kit PRID1.1.05

1 x CD ROM:	PRID 1.1.05
1 x Floppy disk	Language files LNG.1.0.05 for PRID ≥ 1.1.05
1 x Documentation:	Upgrade procedure
4 x Floppy disk	CCM Tool 1.1.02

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2. Upgrade procedure for PRID1.1.05

1) Stop PRID application if running
2) **Make a backup** of the complete current PRID directory somewhere on the hard disk (just to be sure).
3) **Insert CDROM** with PRID1.1.05 install wizzard starts automatically. If not, double click the CD icon on your desk top.
4) Window *"Welcome"* appears. Select **<Next>**
5) Window *"User Information"* appears. Fill in **Name** and **Company** and select **<Next>**
6) Window *"Choose Destination Location"* appears. Select destination folder **c:\prid** and select **<Next>**
7) Window *"Start copying files"* appears. Select **<Next>.** Installation starts.
8) Window *"Setup complete"* appears. Select **<Finish>.**
9) A DOS screen appears, before the adc.cpf file will be parsed.
   Press any key to continue.
   ☞ With WINDOWS 95 close the DOS box manually.
10) Window *"install Java Runtime Environment 1.1.5"* appears. Select **<Yes>** to continue.
11) Window *"Welcome Java"* appears. Select **<Next>**
12) Window *"Software license agreement"* appears. Select **<Yes>**
    ☞ With WINDOWS 95: if ask to install WINSOCK2, answer with **<no>.**
13) Window *"Select components"* appears. **Check** that both components *"Program Files"* and *"I18N"* are clicked on, then
    set path to **`C:\prid\java`** and select **<Next>**
14) Window *"Question"* can be appear. Select **<Yes>** to overwrite the contents of this directory.
15) Window *"Start copying files"* appears. Select **<Next>**
16) Window *"Setup complete"* appears. Select **<Finish>** (
17) **Eject** the CDROM
18) **Start the PRID application.**
19) If PRID application works well, **delete the backup** of the old PRID software

3. Solved Problems in PRID 1.1.05

- Sometimes there have been some problems if you leave the program (NT)
- Auto detection of cassette stops working after a while - solved
- Leading and trailing space are automatically removed from the fields "Radiologist" - "Examination" - "Sub examination" (solved bug!)
- Bug fixed in film layout:
  21 x 43: 714 -> 715
  711 -> 706
  721 -> 718
  726 -> 729
  757 -> 728
  761 -> 745
- RIS-link
  There are existing three versions of RIS-datafile

Version0 or V0:	Used in ADC70-ID-Stations
Version1 or V1:	Used in PRID1102
Version2 or V2:	latest version

  The version number has to be in the RIS-datafile in field 0019,1001. If the field 0019,1001 does not exist in the RIS-datafile PRID1.1.05 assumes version 0.

  PRID1.1.02 didn't check the version field 0019,1001 at all. It always assumed version 1. This could have caused problems if RIS-datafiles where send to PRID1.1.02 with format of version 0 (i.e. ADC70 ID-Station format) or version 2.
  PRID1.1.05 checks the contents of version field 0019,1001 and interprets the entries accordingly. If **no** version field is found in the RIS-datafile PRID1.1.05 assumes version 0.

  Ris-datafiles accepted by the old ADC70 ID-Station are regarded as version 0 files because the field 0019,1001 does not exist in there.

  For information about the format of the RIS-datafile please see the RISlink toolkit user manual.

4. Known bugs not solved yet (PRID 1.1.05)

- Not all extended ASCII's can be entered with keyboard (e.g. "\")
- Time zone setting does not regard daylight saving manual adjustment necessary.
- Caps Lock doesn't react on PC data stay lower case.
- filmsize, linked to a certain examination, overrules the setting of the printer configuration in the cpf file. (could be occur only with rerouting)
- In the "Service" menu under "Initialization" the "READ" button does not display correct values if the cassette is removed from the ID-tablet slot. The field "Usage count" and "Cassette number" jump to wrong values if the cassette is removed.

5. Functions, which will be implemented and supported in one of the next software versions

- DICOM worklist.
- PRID application on UNIX System

6. What's new in PRID 1.1.05

- PRID application: ask for confirmation if you want leave the program (ID- and Preview)
- PRID application: prevent to start up twice
- Patient list: automatically sorted
- Patient list: access by entering the first character
- If window is minimized and cassette is present -> warning: "Please maximize ID station window"
- Function <last cassette> to full leg/spine added.
  With this button it is possible, to stop a series with the next image.
- Study / full leg spine (Scope of hold complete)

  With activated HOLD function the customer have to press <proceed> on the Preview station **only** after the first image of the series. With the old Software every image of the series have to be "proceeded"
- No "Patient read menu" in identification screen (inactive)
- Leading and trailing space are automatically removed from the fields "Radiologist" - "Examination" - "Sub examination" (solved bug!)
- Reset polling procedure for the RF-TAG reader after every identification
- Link License (two images on one film) removed, no more a license product
- Cassette Initialization: 35" x 43" cassette with 21" x 43" scan size configurable only with high resolution.
- Time host feature (System Manager time host feature)
  The path for the time host have to be set via the CCM tool, at the moment not implemented)
- Cpf host feature (System Manager cpf host feature)
  The path for the cpf host have to be set via the CCM tool, at the moment not implemented)
- RIS Link option: File "table.dat" (File with entry to the ID directory) automatically created, when the RIS option is switched on.
  This file is necessary to work with MITRA RIS broker.
- RIS Link option: file adc32.exe stored on release CD.
  This file is necessary to work with MITRA RIS broker.
- RIS Link option: If no HOLD flag is available in the RIS data file, the last value will used.
- GUI configuration tool (GUI = **G**raphical **U**ser **I**nterface)
  New Tool to configure the ID Screen of the PRID Station. Before you have had to edit the layoutdot.ini manually.
- ID Screen: selectable font types - bold - plain - italic – configurable by the GUI tool
- ID Screen: selectable font size for the header of the groups, configurable by the GUI tool
- ID Screen: left column of the data fields automatically aligned in dependency of the length of the field name.
- Study UID: remove of leading zero's
- Driver for a buzzer in the ID tablet implemented. (Buzzer in preparation)
- Test function for the sound devices implemented
- Film layout determination in function of cassette (acc. to cpf)
- Manual confirmation "press any key to continue", when cpf file will parsed
- Installation procedure for language files implemented (Service Install languages)
- **Preview:** new identifier for Proceed/Cancel protocol (STUDY_UID).
  Complete study can be holded / proceeded = the workstation takes then care that all images of a study are arrived and sends it (≥ DIPS1.0.05).

Section 10

2.2
Software Installation
Upgrade to VIPS.1.0.05

DD+DIS139.98E

MED
CSO Customer Support Operations

Technical Documentation

Order-No.: DD+DIS139.98E

1 Piece Q6K7S MA1

November 98

ADC COMPACT
Type 5145

Modification instruction

Please file this document in section 10
of the Technical Documentation ADC COMPACT

Upgrade from DIPS1.0.03 to VIPS1.0.05

List of contents

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1. General information

1.1. Software prerequisites

DIGITIZER:	**≥ COP_1111**
PRID	**≥ PRID1.1.05**

1.2. Hardware prerequisites

Experiences have shown, that 128 MB RAM is the absolute minimum for the (V)DIPS. However for a good performance (UI speed, UI stability) 192 MB RAM memory is recommended.

1.3. Required time for the Upgrade

The upgrade itself takes about 90 minutes. During the upgrade also the images from the System Disk are saved to tape and restored from there. It takes about 25 minutes / 100 images to save to tape and get them from there (calculated with an average images size of 5.9Mb).

Example for a 2.1GB system disk:
90 min for mere upgrade + 100min for 200 images = 190min = 3hours 10min

Example for a 4.2GB system disk:
90 min for mere upgrade + 260 min for 540 images = 350min = 5hours 50min

Reduce the upgrade time as far as possible. So if possible remove all the images (also OFLS) the customer does not need anymore on the (V)DIPS.

1.4. Order No.: EB+44060640

Contents of delivery Software Kit VIPS1.0.05

- 1 CD ROM: MIMOSA VIPS 1.0.05
- 1 Floppy disk Upgrade Support floppy
- 1 Floppy disk Language disk LNG1.0.05 for the (V)DIPS Software ≥ 1.0.03
- 1 Documentation Upgrade procedure
- 1 Floppy disk empty disk, necessary for the upgrade procedure
- 2 DAT-Tapes necessary to save stored images from the system disk

1.5. Additional hardware requirements

- cleaning tape
- DAT Tape necessary if Offline images have to be stored

2. Upgrade

2.1. Preparing actions

1) Insert cleaning tape and wait until it is ejected
2) Remove no more needed images from the (V)DIPS

   The backup of the images can take very long (approx 25min/100images). If possible remove all the images the customer does not need anymore on the PS
3) Make sure, that the waste is empty.
   Click on **<Controller button>,** select **<System monitoring>,** click on **<HDisk>**, click on **<Waste>** and empty the bin.
4) Save stored "Offline images", if still needed. If not, skip this point.
   - go to **<Maintenance>**
   - `Enter selection:` type **3** to select **Repair**
   - `Enter selection:` type **6** to select **ImportExport**
   - `Enter selection:` type **4** to select **DirList.** Check if OFL images are stored.
   - If OFL images have to be stored, insert an empty tape into the Tape drive.
   - `Enter selection:` type **5** to select **save.**

     

     Time to save: 30 minutes / 100 OFL images
   - `Enter selection:` type **q** to exit this menu**.**
5) Write down the **current hostname, current ip-address** and **Netmask** (if needed) of the (V)DIPS. These names are needed during the Software installation.
   - go to **<Maintenance>**
   - `Enter selection:` type **3** to select **Repair**
   - `Enter selection:` type **4** to select **System info**
   - write down the Hostname of the workstation (e.g. "vips220"),
   - write down the IP address of the workstation (e.g. "192.9.200.220")
   - write down the Netmask of the workstation, if it is used
   - `Enter selection:` type **q** to exit this menu**.**
6) Insert the "UPGRADE SUPPORT floppy"
7) Go to **<Maintenance>**
8) `Enter selection:` type **4** to select **Tools**
9) `Enter selection:` type **7** to select **FloppyDir** to mount the floppy
10) `Enter selection:` type **1** to select **Terminal**
11) `1.....:` enter **/floppy/floppy0/install.csh** , hit **<return>**
12) `OK to continue:` type **yes**
13) type **eject floppy** and hit **<return>**
14) type **exit** `and hit` **<return>** to close this window.
15) `Enter selection:` type **q** to exit this menu

2.2. Upgrade procedure

1) Go to **<Maintenance>**
2) `Enter selection:` type **2** to select **Install**
3) `Enter selection:` type **2** to select **Software**
4) `Enter selection:` type **3** to select **Upgrade**
5) If question „`Remove all OFL-files`“ appears answer it with **yes**
6) Insert empty DAT-tape into tape drive.
7) `Take a System backup on Tape now [yes, no, skip, ?, q]:` type **yes**

This can take very long (approx. 25min/100images) e.g. for a 2GB system disk 90min, for a 4GB system disk 180min. Only the images from the system disk will be put on tape. As the additional disks are not touched the images there do not have to be saved to the tape.

8) `Ok to continue [yes, no, ?, q]: type` **yes**
9) `SaveArea backup on floppy or tape [floppy, tape, ?, q]:` type **f**

Don’t select “TAPE”

10) `put floppy into drive and hit <return>:` hit **<return>.**
    ☞ Use an empty floppy!
11) Insert CDROM 1.0.05
12) `Ok to reboot from cdrom [yes, no, ?, q]: type` **yes**
13) `Mount bootable CDROM and hit <return>:` hit **<return>**

Booting takes about 5 minutes

14) `Enter a main selection:` type **1** to select **Install** and hit **<return>**
15) `Enter a selection:` type **2** to select **upgrade** and hit **<return>**
16) If the floppy is still in the drive answer the question „`Use the floppy as JumpStart floppy [yes, no, ?, q]:`“ with **no**.
17) `Install O.S. software from ./SYSTEM/SUN0500 [yes,no,?,q]: type` **yes** (=> the Solaris installation program starts)
18) `"The Solaris Installation Program"` window appears. Click **<Continue>**
19) `"Identify This System"` window appears. Click **<Continue>**
20) `"Hostname"` window appears. **Enter the old hostname** and click **<Continue>**
21) `"Network Connectivity"` window appears. Click on **<yes>** and **<Continue>**
22) ☞ The following window appears only with ULTRA SPARC 1, if fast ethernet is installed. Here you can select **hme0 = 100 mB** autosensing or **le0 = 10 mB** onboard. We recommend to select **hme0**.

    `"Primary Network Interface"` window. Click on **hme0** and **<continue>.**
23) `"IP Address"` window appears. **Enter the old ip_address** and click **<Continue>**
24) `"Confirm information"` window appears. Check. If correct confirm by clicking **<Continue>.**

25) "Subnets" window appears. Click on **<no>** or if used click on **<yes>** and then **enter the subnetmask**. Click **<Continue>.**

26) "Time Zone" window appears. Click on **<Geographic region>** and **<set>**.

27) "Geographic region" window appears. Select local **<Region>** and **<Time zone>** and click **<continue>.**

28) "Date and Time" window appears. Modify **<Date>** and **<Time>** if not correct. Click **<Continue>.**

29) "Confirm information" window appears. Check. If correct confirm by clicking **<Continue>.**

System identification is completed.

Now the Solaris installation program starts.
After about 15 minutes the Workstation will be rebooted automatically, then the following screen appears:

Please log on as root and enter: /mimosa.install

30) Hit <return> to continue..... hit **<return>**

31) PS5000 console login: type **root**

32) Password:..... **type in the root password**
Note: if you don't know the SU password, please contact MED CSO!

33) **#** type **/mimosa.install**

34) OK to run with option upgrade[yes, no, ?, q]: type **yes**

35) Insert backup tape and wait until the green light stops flashing (if not already in).

36) Restore directory /images from tape [yes, no, ?, q]: type **yes**

The restore of the images from the former backup takes about 25min/ 100 images.

37) Install SW from ./MIMOSA/VIPS100x [yes, no, ?, q]: type **yes**

38) Insert floppy with Save Area backup.

39) Choose a SaveArea [?, ??, q]: type **2** to select **floppy.**

Don't select "TAPE"

After about 20 minutes

40) Ok to reboot: type **yes**
User interface starts

41) If images don't appear start a **<check system>** via the controller button in the Userinterface.

42) **Eject the tape and the floppy**

2.3. Installation of the Language files

With this upgrade the language files are not saved.
You have to install the language files again.

Installation:

1) Go to **<Maintenance>**
2) insert language disk
3) `Enter selection:` type **2** to select **Install**
4) `Enter selection:` type **7** to select **Languages**
5) `Enter selection:` type **1** to select **CopyLanguages.**
   All Language files will be loaded.
6) `Enter selection:` type **4** to select **FloppyEject** and remove the floppy.
7) Exit **<Maintenance>**
8) Reset the UI to activate the selected language.
   ✦ The language is set in the adc.cpf file.

2.4. Finish upgrade

To finish the upgrade a customer specific backup has to be made on an empty floppy.

1) Go to **<Maintenance>**
2) Insert an empty floppy disk
3) `Enter selection:` type **2** to select **Install**
4) `Enter selection:` type **9** to select **Backup**
5) `Enter selection:` type **1** to select **SiteSpecific**
6) `Save Area backup on floppy or tape [floppy,tape,?,q]:`
   type **f** for `floppy`
7) After the backup is finished select **q** to quit.
8) Select **q** again
9) `Enter selection:` type **4** to select **Tools**
10) `Enter selection:` type **8** to select **EjectFloppy** and remove floppy from floppy drive
11) Select **q** to quit Tools menu
12) Exit **<Maintenance>**
13) Label floppy with backup with the following data and store it in a save place:

SaveArea backup of <*hostname*>	
For Version:	DIPS1005
Name:	<*Your Name*>
Date:	<*Current date*>

3. Solved Problems with VIPS1.0.05

- UI: does not show all images

  With the last SW version the file size of the images has been reduced, so it is possible to store more images on HD. But the algorithm to calculate the maximum number of images was working in the same way, the no. of max. images was always too low. With this SW version the calculation works with the correct image file size.

- UI: Browser not updated after long non activity
  When a user interface module is left alone for a long time without receiving any updates, it seems that it get starved by the OS. Now an update event is send at least every 15 minutes.
- UI: Status flag "printed", "archive" and "send" are set now with fast channel job as well.
- UI: <SEND> and <ARCHIVE> button removed, if no SCP destination is configured.
- UI: Crash on zoom of some HR images (21cm x 43cm) solved
- Annotation: thumbnails images are no more corrupted when annotation was applied.
- Annotation: no more complete "White images" if zoom has been applied on annotated images.
- Annotation: crash when an image will collimate with following conditions solved
  – annotate an image – undo the annotation – collimate the image manually
- Annotation: Problem with grid in inch solved
  The routine did not make the required conversion for inches
- Annotation: if the measurement calibration function of the annotation package is used without a value filled in, all subsequent measurements for that image will be “0”
- Black boarder: black borders on thumbnails images now displayed when license is switched on.
- Dose Monitoring: if the user entered the value manually, the system sets <A> (means average of 50 images) in the status column instead <F> (fixed value). solved
- Truesize layouts *11"x14"–2/0–Portrait* and *14"x17"–2/0–Landscape* , removed from list in DIPS1.0.03, now available again.
- "Auto Reboot" of the (V)DIPS, done every Monday morning, removed
- "Auto Reset of the UI" of the (V)DIPS, done every day, removed.
- Performing physician replaces Reading physician solved
- Patient names and Patient first names, which contains more than one "space" in sequence, received by (V)DIPS without problems.
  Before images with such names have been refused by the workstation.
  Now white spaces in patient name and patient first name are not compressed any more.
- 2000 year problem in id_date solved
  Years beginning with "8" or "9" gets a "19" prefix, other years gets a "20" prefix.
- DICOM: if an image has been reprocessed on the (V)DIPS, the image gets now an altered Image_UID no. for sending to IMPAX.
- IMPAX: Measuring on IMPAX 3,5 or higher correct now.
  Image pixel spacing is sent correctly now (DICOM element 28,30). The parameter is now sent in pixel / mm instead of pixel / cm.
- Loading "cpf" crashes when local menus are stored - solved
- Info counter: sometimes info counter could not be read - solved

4. What's new in VIPS1.0.05

- ⚠ (Warning sign) on hardcopy identifies manual reprocessed images.
  Positions of the sign at the film: in text field in the upper left corner and in the image on the lower right corner.
- UI: Symbol 1:1 to the true size print button added
- UI: "Destination name" on the top of the Browser GUI added
  This name is defined in the adc.cpf-file in the field <station name>
- UI: in System monitoring module "Info button" for the following Network information added
  –processing station name, Hostname, IP address, DICOM AE title and DICOM Port no.
- UI: in System monitoring module – Printer Output: Function "Print test images" added
- UI: in System monitoring module Input and output lists enlarged
- More detailed information for WARNING MESSAGES, received from DICOM output. However as this messages are a part of DICOM, they always will be in English and not in the national language.
- Annotation: font sizes increased
- Link option: is no more a licensed product; therefore the Link option is removed from the license manager and is a part of the basic software.
- Truesize printing: for DRYSTAR, LR3300, LR5200 added
- Truesize printing: 10"x12" images can now be printed on a film 14" x 17" in portrait.
- InitModem data file adapted
- SOLARIS 2.6 on MIMOSA CD. This supports ULTRA SPARC 1 and ULTRA 10.
  Note: ULTRA 10 (PCI BUS based) works only with SOLARIS 2,6 or higher.
- Support for all sizes of SCSI disks, formatted in BSD format e.g. SUN HD
- Images in waste bin are deleted before an upgrade
- Log file: information about manual deleted images added
- Statistic counters enhanced (Input – Output counters, destination counters)

5. Functions, which will be implemented and supported in one of the next software versions

- Leeds phantoms (option)
- Patient Overview (option)
- Slide (option)
- Full Leg/Spine (option)
- Pediatric and Dental software (option)
- PRID application on UNIX System
- DICOM worklist

6. Known bugs not solved yet (VIPS 1.0.05)

- UI: is closed when background was reset.
- UI: Date always in US format (month/day/year), independent from national language setting.
- UI: Problem with Status flag “send”, “printed” and “archive”: “send” flag not reset to “not send” if transmission failed.

  Workaround: Reset UI, then flags are updated.
- Screen lock / screen saver cannot be switched off via the adc.cpf / CCM tool.

  Workaround:

  - for DIPS1.0.03 no workaround
  - for VIPS1.0.05 the following steps have to be performed:

  1) Press <OPEN> button on the keyboard to get into UNIX
  2) Select Style Manager (Button TTT) from the toolbar at the bottom of the screen
  3) Select <Screen> in the Style Manager
  4) Switch Screen Lock to <OFF> and press <OK>
  5) Select <Startup> in the Style Manager
  6) Select <Set Home Session ...> and confirm with <OK>
  7) Select <OK> again to leave the Startup settings
  8) Close <Style Manager>
- Annotation: no annotation can be created on zoomed images with ULTRA 10.
- Annotation: Problems with grid, if no value for the grid size is entered (starts an endless loop of calculation)
- Annotation: black and white dotted annotations, if the background is noisy.
- Annotation: some annotations are not inverted after inversion of the image.
- MIMOSA Maintenance: Upgrade procedure crashes.
- MIMOSA Maintenance: Changing the default router form the Maintenance does not work.

  Workaround: manual editing the file /etc/defaultrouter
- “Autodelete” function:
  - if the system runs with a very high troughput, the “Autodelete” can crash.

    Workaround: restart Background
  - performance decreases if image partitions are nearly full

    Before an image will be deleted by the “Auto delete function”, the image with the oldest creation date has be determined. Depending from the no. of image partitions this can take a lot of time. It can slow down the (V)DIPS considerably.

    Workaround: Reduce the no. of image partitions temporary till new SW is available. Delete images manually.

Section 10

2.3
Software Installation
Upgrade to PRID 1.1.07

DD+DIS095.99E

MED
CSO Customer Support Operations

Technical Documentation

Order-No.: DD+DIS095.99E

1 Piece TO7JE MA1

May 99

ADC COMPACT
Type 5145

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC COMPACT

Upgrade from PRID 1.1.02 to PRID 1.1.07
and
Upgrade from PRID 1.1.05 to PRID 1.1.07

List of contents

printed in Germany

AGFA

1 General Information

1.1 Software Prerequisites:

ADC Compact Digitizer:	≥ COP_1112 (recommended: COP_1215, CM+9.5145.1050.2)
ADC Compact Processing Station – MIMOSA SW:	≥ DIPS1.0.09

1.2 Main Changes in PRID 1.1.07*

- DICOM worklist available now (restrictions: fixed AE_title for PACS Broker; query is only made for modality “CR”, but not for status of a study in the PACS Broker).
- DICOM query by accession number.
- New license manager introduced (see point 1.6 as well).
- Speed of detecting, writing to and reading from a cassette chip has been considerably increased.
- “CAPS Lock” can be used on Preview&Identification application now.

* For further details see points 3, 4, 5, 6, and 7 of this document.

1.3 Required Time for the Upgrade

Less than 15 minutes.

1.4 Order No.: EB+4406.0675

Scope of delivery of software upgrade kit PRID 1.1.07

• 1 x CD ROM	PRID 1.1.07
• 1 x Floppy disk	Language files LNG.1.0.05 for PRID ≥ 1.1.05
• 1 x Documentation	Upgrade procedure (DD+DIS095.99E)
• 4 x Floppy disk	CCM Tool 1.1.02
• 4 x License card	For Identification SW, for Preview SW, for RISlink Toolkit SW, for Autorouting SW

1.5 Released Options

The following table shows the released options.

OPTION	Released	New in PRID 1.1.07
ADCC ID SW	YES	No
ADCC Preview SW	YES	No
ADCC RISLink Toolkit SW*****	YES	No (but new features added)*
ADCC Autorouting SW	YES	No

***** New features are “DICOM worklist” and “DICOM query by accession number”.

1.6 New License Policy on Preview & Identification Application

With PRID 1.1.07 a new license policy is established. The policy now is that the license can be switched on by the hospital responsible (system administrator, user), i.e. the license management has been moved from the user "Service" to the user "System".
A licensed option can be switched on in demonstration***** mode or with a full license. A full license requires a sixteen digit license number. This is a dedicated number for each of the above mentioned software options.
The license number is created in production and is communicated to the client by means of a license card which comes with the ordered software option.
The former license numbers are not valid anymore. Licensed software options purchased before PRID 1.1.07 must be switched on again after the upgrade. Therefore each software upgrade kit PRID 1.1.07 comes with four new license cards which contain valid license numbers.
The new license management is only introduced on the Preview&Identification SW, but not yet on the new Processing Station software VIPS.1.0.09. The new license management will be introduced with VIPS.1.1.xx for the Processing Station.

***** The demonstration license is valid 30 days. After this period the licensed option is deactivated and cannot be switched on in "DEMO" mode again. Demonstration licenses are only available for "ADCC RISLink Toolkit SW" and "ADCC Autorouting SW ".

2 Upgrade Procedure for PRID 1.1.07

1) Stop PREVIEW & IDENTIFICATION application if running.
2) Make a backup of the complete current "C:\orid" directory somewhere on the hard disk (just to be sure).
3) Insert CD ROM with PRID 1.1.07. The "Install Wizard" starts automatically. If not, eject and insert the CD ROM once again.
4) Window *"Welcome"* appears. Select **<Next>**
5) Window *"User Information"* appears. Fill in Name and Company and select **<Next>**
6) Enter the new license number for the ADCC Preview SW and / or ADCC ID SW
   Note: Edit the license number written on the license card coming with PRID 1.1.07 for the ID-Station SW. The application will not run without that numbers.
7) Window *"Choose Destination Location"* appears. Select destination folder **C:\prid** and select **<Next>**
8) Window *"Start copying files"* appears. Select **<Next>.** Installation starts.
9) Window *"Setup complete"* appears. Select **<Finish>.**
10) A DOS screen appears, before the adc.cpf file will be parsed.
    Press any key to continue.
    ☞ With WINDOWS 95 close the DOS box manually.
11) Window *"Install Java Runtime Environment 1.1.7a"* appears. Select **<Yes>** to continue.
12) Window *"Welcome Java"* appears. Select **<Next>**
13) Window *"Software license agreement"* appears. Select **<Yes>**
    ☞ With WINDOWS 95: if asked to install WINSOCK2, answer **<no>.**
14) Window *"Select components"* appears. Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **`C:\prid\java`** and select **<Next>**
15) Window *"Question"* can appear. Select **<Yes>** to overwrite the contents of this directory.

16) Window *"Start copying files"* appears. Select **<Next>**

17) Window *"Setup complete"* appears. Select **<Finish>**

18) Eject the CD ROM

19) Start the Preview&Identification application.

    The first time PRID 1.1.07 starts, you are asked for the site information. Please fill it in. This window will not appear any more.

20) If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.

3 Solved Problems from PRID 1.1.05 to PRID 1.1.07

- Polling for the cassette and writing to the cassette has been changed. The detection of a cassette in the ID – tablet needs now less than half the time it did with PRID 1.1.05. In addition, the writing speed has also been increased.
- It is now possible to use the "CAPS LOCK" key within the application. It is not necessary any longer to restart the Preview&Identification application to get from one mode into the other. In addition, all extended ASCII characters are accepted now (e.g. "\", "@").
- Problem in the "Initialization → Read" option solved. When the "Read" button in PRID1.1.02/1.1.05 was used it read out all the initialization data correctly, but as soon as the cassette has been removed, the information jumped back to the default values. This is solved now.
- If a cassette was initialized with "plate type = AGFAHD" on PRID 1.1.02/1.1.05, the field "plate type" in the "INFO" of the Processing Station showed as "plate type" AGFATEST. In PRID 1.1.07 this is solved. However, the cassette has to be reinitialized with PRID 1.1.07.

4 Solved Problems from PRID 1.1.02 to PRID 1.1.07

If you upgrade from PRID 1.1.02 to PRID 1.1.07, the following problems have been solved in addition to the ones mentioned in point 3.

- Sometimes there have been some problems if you left the Preview&Identification application in Windows NT. This is solved now.
- Auto detection of cassette stops working after a while. This is solved now.
- Leading and/or trailing spaces are automatically removed from the fields "Radiologist" - "Examination" - "Sub examination". Leading and/or trailing spaces resulted in that some "Sub examination" have not been displayed in the Identification screen. This is solved now.
- RISlink
  There are existing three versions of the RIS data file

Version0 or V0:	Used in ADC70-ID-Stations
Version1 or V1:	Used in PRID 1.1.02
Version2 or V2:	Latest version

  The version number has to be in the RIS data file in the field 0019,1001. If the field 0019,1001 does not exist in the RIS data file, PRID 1.1.05 assumes version 0.

  PRID 1.1.02 did not check the version field 0019,1001 at all. It always assumed version 1. This could have caused problems if the RIS data files were sent to PRID 1.1.02 with the format of version 0 (i.e. ADC70 ID-Station format) or version 2.
  PRID 1.1.05 checks the contents of version field 0019,1001 and interprets the entries accordingly. If no version field is found in the RIS data file, PRID 1.1.05 assumes version 0.

  RIS data files accepted by the old ADC70 ID-Station are regarded as version 0 files, because the field 0019,1001 does not exist in there.

For information about the format of the RIS data file please see the RISlink toolkit user manual.

5 What's new from PRID 1.1.05 to PRID 1.1.07

- New license management has been introduced in PRID 1.1.07. Licenses on the Preview&Identification application are not switched on any more by service, but by the system manager. Use only the license number of PRID 1.1.07. Others won't work.
  Four options are available now:
  - ADCC ID Software
  - ADCC Preview SW
  - ADCC RISLink Toolkit SW
  - ADCC Auto-routing SW

  The license numbers for the "ADCC ID Software" and "ADCC Preview Software" have to be entered during fresh installation or during upgrade.
  The numbers for "ADCC RISLink Toolkit SW" and "ADCC Auto-routing SW" have to be edited in the new license manager.
- RIS function has been enlarged by two new modes of working.
  - "DICOM" mode — Supports retrieval of DICOM worklist from the MITRA PACS Broker. However PRID 1.1.07 queries the PACS Broker only for the modality "CR". Based on that the DICOM worklist is build. No other criteria (e.g. status of an examination in the PACS Broker) is queried for. In addition no alphabetical ordering is possible. Refer to new RISLink Toolkit User Manual for more information as well.
  - "Accession" — Retrieves patient information from the MITRA PACS Broker by means of the accession number (= RIS–ID). Refer to new RISLink Toolkit User Manual for more information as well.
- GUI-tool (Graphical User Interface Design tool to customize Identification screen).
  - The GUI-tool has got an "Update"-button now. This allows to update the ID-screen template whenever you like. In PRID 1.1.05 every change was updated right away, which made the configuration very slow.
  - "Save" button is changed to "Apply" button.
  - "Menu font size" can be set now as well. This applies for the labels of the drop down menus and for the menu options themselves.
- Drop down menu options have been adapted to functionality of PRID 1.1.07

  Options removed from the Identification application:

  <u>Configuration – System Manager</u>
  - screensaver

  <u>Configuration – Service</u>
  - RISLink option } covered by new
  - Auto-routing option } license manager
  - Full leg/spine option — license moved to DIPS
  - Study option — no license anymore

  Options added to the Identification application:

  <u>Configuration – Operator</u>
  - Always to front — ID is always in front

➢ Hold Status	works together with RISLink now
Configuration – System Manager	
➢ License ...	New license management
Configuration – Service	
➢ Site Info	Allows to view/edit Site Info, edited during the SW installation
➢ Reset Counters	Reset Infocounters

- Infocounters are created now for Preview&Identification activities. The counters are stored in the file “C:\prid\log\counter.txt.
- “Info” under option “Help” is supported now. Please refer to the User Manual for an example.

6 What’s new from PRID 1.1.02 to PRID 1.1.07

If you upgrade from PRID 1.1.02 to PRID 1.1.07 the following new functions are available in addition to the ones mentioned in point 5.

- The Preview&Identification application asks for confirmation if you want exit it.
- The Preview&Identification application cannot be started twice anymore.
- The patient list is automatically sorted now.
- In the patient list a patient can be selected by entering the first character of the name.
- If the Identification window is minimized and a cassette is inserted into the Identification tablet, the warning "`Please maximize ID station window`" is displayed.
- In the “Study” mode with activated “HOLD” function the customer has to press the “Proceed” button on the Preview station only on one image of the series. With PRID 1.1.02 every image of the series had to be "proceeded" seperately.
- The "Patient read" in the Identification screen is inactive now.
- The “ADCC Link SW” (two images on one film) does not require a license number anymore.
- In the cassette initialization menu the 35" x 43" cassette with 21" x 43" scan size can only be configured with high resolution.
- The “Time Host” feature (System Manager ⇒ time host feature) has been introduced. This allows to select a host in the ADC cluster from where the time is retrieved. The path for the time host has to be set via the CCM tool. At the moment only the Preview&Identification software and the Processing Station support this feature, but not the ADC Compact Digitizer.
- The “Cpf Host” feature (System Manager ⇒ cpf host feature) has been introduced. This allows to select a host in the ADC cluster from where the configuration file “adc.cpf” is retrieved during startup. The path for the cpf host has to be set via the CCM tool. At the moment only the Preview&Identification software and the Processing Station support this feature but not the ADC Compact Digitizer. As the “adc.cpf” file must be equal in the complete ADC cluster, please do not switch on this feature until it is implemented in the ADC Compact Digitizer as well.
- The file “adc32.exe” is included in the PRID 1.1.05 now. This file is necessary to work with the MITRA PACS broker and to do a query by accession number.
- The “GUI configuration” tool (GUI = Graphical User Interface) has been introduced. This allows to configure the Identification screen of the Preview&Identification Station. Before, you had to edit the file “layout.ini” manually.
- From the “Study UID” leading zeros are removed now.

- Driver for a buzzer implemented. A buzzer will be introduced in the Identification tablet soon.
- Test function for the sound devices implemented.
- Film layout determination in function of cassette.
- Installation procedure for language files implemented (Service ⇒ Install languages).
- A new identifier for the “Proceed/Cancel” function on the Preview software has been introduced. A complete study can be “proceeded” by just pressing the “Proceed” button on one preview image. The Processing Station knows which images belong to a certain study and sends the rest of the images in that study to their predefined destinations as well (supported from VIPS.1.0.05 or higher on).

7 Known Bugs not solved yet (PRID 1.1.07)

- Time zone setting does not regard daylight saving.

  Workaround: A manual adjustment is necessary.
- In the “RISLink Toolkit SW” in the “DICOM” worklist no AE_title for the PACS Broker can be configured. It is preset in the software and is always “BROKER”. No workaround exists.
- When a window outside the “remove cassette” box is clicked, the “remove cassette” message box gets hidden and the system seems to be blocked.
  Workaround: Remove the cassette.
- The time zone description is not clear enough. No workaround exists.

Appendix A: ADC C APPLICATION NOTE

ADC C APPLICATION NOTE

Subject: ***System Release ADC C (COP_1112, VIPS1009, PRID1107)***

Component name/Option:

Component	Release vers./ Status	Option	Released	Medium/Format	ABC
Autoprocessing SW	**VIPS1.0.09/ C**			Unix CD-ROM	37J5M
		Interactive processing SW	Yes		37J6O
		ADCC Autorouting sw	Yes		368K2
		ADCC Uro tomo software	Yes		368L4
		ADCC Pediatric software	No		37J7Q
		ADCC Dental software	No		37J8S
		ADCC Full leg/spine sw	Yes		37J9U
		ADCC smart Print sw*	No		
		ADCC Annotation software	Yes		368M6
		ADCC Black border sw	Yes		368OB
		ADCC Dose monitoring sw	Yes		368PD
		ADCC Auto QC software	Yes		368QF
		ADCC Dicom store connection	Yes		37KD5
		ADCC Softcopy toolkit	Yes		37KE7
		ADC PS5000 upgr to ADCC	No		37KFA
ID software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J2F
Preview software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J3H
		ADCC Rislink toolkit sw	Yes		368JZ
COMPACT Custom/Conf. Tool	**COP_1112/ C CCM1.1.02/C**			3x HD/DOS 4x HD/DOS	
Shipment.CPF	CPF.S.4.0.05/**C**			1x HD/DOS	

* ADCC “overview printing” and “slide printing” will be replaced by one Software package :ADCC “smart print”

1 Scope of the Document

This document describes the application related issues of the customer release of ADC C (COP_1112, recommended COP_1215, order Nr.: CM+9.5145.1050.2,
VIPS.1.0.09,
PRID 1.1.07).

2 General

- New user manuals are available for the ID Software (code 2201B), Rislink (code 2209C)and Basic System (code 2200B). These manuals are also available in pdf format. You can order additional copies of the manuals by sending an e-mail to Hugo Geyskens (tel 7255). If you order the new user manuals, you should use the code followed by the country code. e.g. 2201B D for Germany.
- Performance of the System:

  A processing Station (VIPS) can handle 140 images standard resolution. This means that 1 VIPS can handle 2 ADCC at full load under the following conditions:

  -The images must be standard resolution
  -Only “on-line hardcopy” output from the Processing Station

  It is possible to connect maximum 3 ADCC’s to one Processing Station (VIPS) reducing the workload on each digitizer accordingly.

3 New Options

- Full leg/Spine. (user manual code 2214A)
- Auto QC software. (user manual code 2217A)
- ADCC Test Phantom Set (will be available from juli on)
- Holder for Full leg/spine (will be available from september on)
- ADB (Agfa DICOM Bridge) This software is included on the VIPS1009 CD. You can use this software to create study folders when ADCC is connected to a PACS system.
- DICOM worklist is available on PRID with the restriction of a fixed AE_title.
- New license manager on PRID under system administrator. The user can switch on the license himself. Because the old license numbers do not work on this version, a license card for Identification station, Preview, Rislink and Autorouting is delivered with the upgrade.

4 General Functions which are not implemented or supported yet:

- Overview and slide option. Will be available in next release (end 1999) as **one** new Software package: **“Smart Print”**
- Switching on licenses by the customer on the VIPS. The customer has to enter the license number which is validated by the system. Will be available in next release (end 1999)
- Pediatric and Dental software . Will be available september 1999.
- PRID on Unix.

5 System Requirements:

- System disk should be at least 2 Gbyte.
- Minimum 128 Mbytes of RAM for DIPS and basic VIPS operations.
- Minimum 192 Mbytes of RAM for full leg/spine software.
- Maximum 27 Gbytes of total diskspace is supported.

6 Bug Fixes

See Modification Instructions MED CSO for a detailed list of solved problems.

The most important bug fixes are:

- VIPS system slows down when image disks are completely filled up with images. (this was a problem with the auto delete function)
- VIPS User Interface stability is significantly improved. Crashes are dramatically reduced.
- Annotation in Zoom is possible.
- New way of drawing Annotations. To avoid dotted annotations a black line is drawn around white annotations.
- Date format is set according to the language setting on the VIPS.
- Lists of selection are sorted without taking into acount CAPS.
- PRID slow writing information to the chip is solved.
- Caps Lock can be used on PRID.

7 Known Bugs:

- Collimation:sometimes a jagged Black line is drawn diagonally over the image (so called Zorro effect). This will be solved in next release.
- Annotation not printed on film. Work arround: reboot the VIPS.
- If an image transmission to a certain destination (HCP, SCP, IMPAX) fails, the “sent” flag is reset to “Not sent”. However a UI reset is required to update the status flag.
- Rislink:Fixed AE_title for DICOM worklist.
- PRID: when a window outside the “remove Cassette” box is clicked, the “remove cassette” message box gets hidden and the system seems to be blocked. Workaround: Remove cassette.
- Time zone should be set in the PRID application (not in windows). Will be solved in next release.

Section 10

2.4
Software Installation
Upgrade to VIPS.1.0.09

DD+DIS096.99E

Order-No.: DD+DIS096.99E

1 Piece TO7ML MA1

May 99

ADC COMPACT

Type 5145

Modification Instructions

Please file this document in section 10
of your Technical Documentation ADC COMPACT

Upgrade from DIPS 1.0.03 to VIPS.1.0.09
and
Upgrade from VIPS.1.0.05 to VIPS.1.0.09

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1 General Information

1.1. Software Prerequisites

ADC Compact Digitizer:	≥ COP_1112
	(recommended: COP_1215, Order Nr.: CM+9.5145.1050.2)
PRID (Preview & Identification SW):	≥ PRID1.1.07

1.2. Main Changes in VIPS.1.0.09*

- "ADCC Full leg / spine SW" released.
- "ADCC Auto QC SW " released.
- ADCC Test Phantom set will be available from July 1999 on.
- Holder for full leg / full spine will be available from September 1999 on.
- "AGFA DICOM Bridge (ADB) SW" included now. This software can be used to create study folders when the ADC Compact system is connected to a 3rd party PACS system. A separate document will follow to describe the configuration of this software package.
- The Processing Station does not get slow anymore when image storage gets full or more than 9GB of image storage is attached.
- The MIMOSA User Interface stability has been increased significantly by increasing the "swap" space, the shared memory, etc..
- New way of drawing annotations increases their visibility in noisy images.
- Date format in the MIMOSA User Interface is displayed according to the language setting.
- Patient names in patient list are sorted alphabetically now no matter if lower case, upper case or umlaute are used.

* For further details see points 3, 4, 5, 6, and 7 of this document.

1.3. Hardware Prerequisites

The experience has shown that 128 MB RAM is the absolute minimum for the Processing Station. However, for a good performance (UI speed, UI stability) 192 MB RAM memory is recommended. The Processing Stations coming from AGFA are equipped with 256MB RAM. This guarantees that the Processing Stations are working well with SW-Options with high RAM utilization (e.g. ADCC Full leg / spine SW) as well.
The system is only tested with 27 GB hard disk space for images. AGFA does not guarantee a smooth working if more hard disk space for images is used.
As the swap space has been increased at least a 2 GB HD is needed to store the Operating System and the Application plus approximately 180 images.

1.4. Released Options

So far the following options have been released:

OPTION	Released	New in VIPS1009/PRID1107
Interactive processing SW	Yes	No
ADCC Autorouting SW	Yes	No
ADCC Uro Tomo SW	Yes	No
ADCC Pediatric SW	No	-
ADCC Dental SW	No	-
ADCC Full leg / spine SW	Yes	Yes
ADCC Smart Print SW*	No	-
ADCC Annotation SW	Yes	No
ADCC Black Border SW	Yes	No
ADCC Dose Monitoring SW	Yes	No
ADCC Auto QC SW	Yes	Yes
ADCC Dicom Store Connection SW	Yes	No
ADCC Softcopy Toolkit SW	Yes	No
PS5000 upgrade to ADCC	No	No
ADCC PRID on UNIX SW	No	No

- The former options “ADCC Overview Printing SW” and “ADCC Slide Printing SW” will be replaced by one Software package “ADCC Smart Print SW”

1.5. Release Environment

These versions on the hardcopy devices and the IMPAX Stations (and subsequent releases respectively) guarantee that all functions on the Processing Station are supported properly. Other combinations have not been tested and may result in restrictions in functionality.

LR5200	LTP01901
LR5200 Controller	AOS32946 /C CAD32946 /C ECU32947 /C
DICOM	DCM2.3.4/C
IMPAX	R3.5_v.2.4.0/C

1.6. Performance - Image Input Rate

A Processing Station can handle an input of 140 images scanned with standard resolution. This means that one Processing Station is able to handle two ADC Compact Digitizers at full load under the following conditions:

- The images are standard resolution.
- There are not more than 27GB memory space for images hooked to the Processing Station.
- Only the “Online Hardcopy” output is used.

It is also possible to connect maximum three ADC Compact Digitizers to one Processing Station. However, this reduces the possible workload on each digitizer accordingly. It is not recommended to connect more than three Digitizers to one Processing Station.

1.7. Required Time for the Upgrade

The upgrade itself takes max. 90 minutes (depends strongly on the speed of the CD ROM drive). The upgrade can be done with or without saving and restoring the images from the System Disk. It takes about 50 minutes / 100 images to save them to and restore them from DAT-tape (calculated with an average image size of 5.9MB).

Example for a 2.1GB system disk:
90 min for mere upgrade + 100min for 200 images = 190min = 3hours 10min

Example for a 4.2GB system disk:
90 min for mere upgrade + 260 min for 520 images = 330min = 5hours 30min

Reduce the upgrade time as far as possible. Remove all the images (also OFLS) the customer does not need any more on the Processing Station.

1.8. Order No.: EB+4406.0670

Scope of delivery Software Kit VIPS.1.0.09

- 1 CD ROM: MIMOSA VIPS1.0.09
- 1 Floppy disk Upgrade support floppy
- 1 Floppy disk Language disk LNG1.0.05 for the (V)DIPS Software ≥ DIPS1.0.03
- 1 Documentation Upgrade procedure
- 1 Floppy disk Empty disk, necessary for the upgrade procedure
- 2 DAT-tapes Necessary for the backup of the system disk

1.9. Useful Accessories

- Cleaning tape
- DAT-tape Necessary if “Offline” images have to be saved.

2 Upgrade

2.1. Preparing Actions

Note: Steps 1 – 4 are only necessary if the images on the system disk are needed again after the upgrade.

1) Insert cleaning tape into DAT-tape drive and wait until it is ejected again.

2) As the backup of the images can take very long (approx. 25min/100images) remove no more needed images from the Processing Station

3) Check if the DAT-tape drive is accessible.
   - Switch on DAT-tape drive
   - go to **<Maintenance>**
   - `Enter selection:` enter **4** to select **Tools**
   - `Enter selection:` enter **1** to select **Terminal**
   - A new terminal window appears. Enter **mt –f /dev/rmt/0lb rewind** in the terminal window.
     - If you get no response and just return to the prompt everything is ok.
     - If you get the response "`No tape loaded or drive offline`" everything is ok.
     - If you get the response "`No such device or address`" the DAT-tape drive is connected on the wrong SCSI connector on the rear of the Processing Station. Please shutdown the Processing Station and connect your DAT-tape drive according to the connection diagram in Appendix A of this document. Restart the Processing Station again and start again with point 1 of this section.

   If the DAT-tape drive is not connected to the correct SCSI port the backup and restore of the images will fail.

4) Save "Offline images" to DAT-tape. If they are not needed anymore skip this step. Time to save is approx. 25 minutes / 100 OFL images.
   - go to **<Maintenance>**
   - `Enter selection:` enter **3** to select **Repair**
   - `Enter selection:` enter **6** to select **ImportExport**
   - `Enter selection:` enter **4** to select **DirList.**
   - Insert an empty DAT-tape into the DAT-tape drive. Make sure that the write protection is off on the DAT-tape
   - `Enter selection:` enter **5** to select **Save.**
   - `Enter selection:` enter **q** to exit this menu**.**

5) Check and write down the current hostname, current ip-address and netmask of the Processing Station. This data will be needed during the software upgrade.
   - Go to **<Maintenance>**
   - `Enter selection:` enter **3** to select **Repair**
   - `Enter selection:` enter **4** to select **SystemInfo**
   - Move to the section "`Workstation Networking Environment`" in the system information. The following information should appear:

```
....
----- Workstation Networking Environment -----
Workstation          :  vips220       192.9.200.220
Broadcast            :  -             192.9.200.255
Netmask              :  -             255.255.255.127
....
```

- Write down the Hostname of the Processing Station (= Workstation) (in the above example "`vips220`"),
- Write down the IP address of the Processing Station (in the above example "`192.9.200.220`").
- Write down the Netmask of the Processing Station (in the above example "`255.255.255.127`"). This field maybe empty if no subnetting is done.
- `Enter selection:` enter **`q`** to exit this menu**.**

Note: Steps 6 - 15 are only required with version MIMOSA VIPS1.0.03. They are not needed if version MIMOSA VIPS1.0.05 is installed on your Processing Station.

6) Insert the "UPGRADE SUPPORT floppy"
7) Go to **<Maintenance>**
8) `Enter selection:` enter **4** to select **Tools**
9) `Enter selection:` enter **7** to select **FloppyDir** to mount the floppy
10) `Enter selection:` enter **1** to select **Terminal**
11) A new terminal window appears. Enter **/floppy/floppy0/install.csh**
12) `OK to continue:` enter **yes**
13) Enter **eject floppy** in the terminal window
14) Enter **exit** in the terminal window
15) `Enter selection:` enter **q** to exit this menu

2.2. Upgrade Procedure

1) Go to **<Maintenance>**
2) `Enter selection:` enter **2** to select **Install**
3) `Enter selection:` enter **2** to select **Software**
4) `Enter selection:` enter **3** to select **Upgrade**
5) If the question „`Remove all OFL-files`“ appears answer it with **yes**

Note: Step 6 can be skipped if the current images are not needed anymore after the upgrade.

6) Insert an empty DAT-tape into the DAT-tape drive and wait until the green LED on the DAT-tape drive stops flashing.
7) `Take a System backup on tape now [yes, no, skip, ?, q]:`
   - Enter "`yes`" if the current images are still needed after the upgrade. Saving images to DAT-tape can take very long (approx. 25min/100images).
   - Enter "`skip`" if the current images are not needed anymore after the upgrade.
8) `Ok to continue [yes, no, ?, q]:` enter **yes**

9) `SaveArea backup on floppy or tape [floppy, tape, ?, q]:` enter **floppy**

   Don't enter "`tape`" → Due to a software bug this crashes the upgrade procedure.

10) `Put floppy into drive and hit <return>:` hit **<return>**

11) `Ok to reboot from cdrom [yes, no, ?, q]:` enter **yes**

12) Insert the CD ROM with MIMOSA VIPS1.0.09 SW into CD ROM drive

13) `Mount bootable CDROM and hit <return>:` hit **<return>**

    Booting from CD ROM takes about 5 minutes

14) `Enter a selection:` enter **1** to select **Install**

15) `Enter a selection:` enter **1** to select **Upgrade**

16) If the floppy is still in the drive answer the question „`Use the floppy as JumpStart floppy [yes, no, ?, q]:`" with **no**.

17) `Install O.S. software from ./SYSTEM/SUN0506 [yes,no,?,q]:` enter **yes**
    The Solaris installation program starts now.

18) `"The Solaris Installation Program"` window appears. Click **<Continue>**

19) `"Identify This System"` window appears. Click **<Continue>**

20) `"Hostname"` window appears. Enter the old hostname and click **<Continue>**

21) `"Network Connectivity"` window appears. Click on **<yes>** and **<Continue>**

22) The following window appears only with ULTRA SPARC 1 hardware and if a fast ethernet board is installed.
    Here you can choose between hme0 (= 100mbit/10mbit auto sensing) or le0 (= 10 mbit onboard). We recommend to select hme0.

    `"Primary Network Interface"` window. Click on **hme0** and **<continue>.**

23) `"IP Address"` window appears. Enter the old ip_address and click **<Continue>**

24) `"Confirm information"` window appears. Check if the entries are correct and confirm by clicking **<Continue>.**

25) `"Subnet"` window appears. Click on **<no>** or if subnetting is used click on **<yes>** and then enter the old subnetmask. Click **<Continue>.**

26) `"Time Zone"` window appears. Click on **<Geographic region>** and **<set>**.

27) `"Geographic region"` window appears. Select **<Local Region>** and **<Time zone>** and click **<Continue>.**

28) `"Date and Time"` window appears. Modify **<Date>** and **<Time>** if not correct. Click **<Continue>.**

29) `"Confirm information"` window appears. Check if the entries are correct and confirm by clicking **<Continue>.**

    Successful system configuration is confirmed by the message "`System identification is completed.`"

    Now the Solaris operating system files are copied to the Processing Station. After about 15 minutes it will be rebooted automatically. After a few minutes the following message is displayed.

```
Please log on as root and enter:
/mimosa.install
```

30) `Hit <return> to continue.....` hit **<return>**

31) `vips220 console login:` enter **root**
32) `Password:` enter **adcroot**
33) Enter **newfs -i 16384 -m 2% /dev/rdsk/c0t0d0s7**
34) On the query `Construct a new file system /dev/rdsk/c0t0d0S7 (y/n)?` enter **y**
35) Enter **/mimosa.install**
36) `OK to run with option upgrade[yes, no, ?, q]:` enter **yes**
37) If you want to restore the old images insert the backup DAT-tape into the drive now (if not already in) and wait until the green light stops flashing.
38) `Restore directory /images from tape [yes, no, ?, q]:`
    - If you want to restore the old images enter **yes**
    - If you don't need the old images anymore enter **no**
39) `Install SW from ./MIMOSA/VIPS1009[yes, no, ?, q]:` enter **yes**

Note: Steps 40 and 41 appear only if under step 38 the old images from the backup DAT-tape have not been restored.

40) Insert the floppy with SaveArea backup.
41) `Choose a SaveArea [?, ??, q]:` enter **2** to select **floppy.**
    - Don't enter "`tape`" → Due to a software bug this crashes the upgrade procedure.

    Now the ORACLE database files, MIMOSA application files are copied to the Processing Station and the MIMOSA software is initialized with the old configuration data. This takes about 20 minutes.
42) `Ok to reboot:` enter **yes**
    The Processing Station reboots once again and starts up with the MIMOSA User Interface.
44) If the old images do not appear run a **<Check System>** via the controller button in the MIMOSA User Interface. It can take a while until the new images will show up.
45) Eject the DAT-tape and the floppy

2.3. Installation of the Language Files

With this upgrade the language files are not saved. Therefore they have to be reinstalled.

Installation procedure:

1) Go to **<Maintenance>**
2) Insert language disk
3) `Enter selection:` enter **2** to select **Install**
4) `Enter selection:` enter **7** to select **Languages**
5) `Enter selection:` enter **1** to select **CopyLanguages.**
   All Language files will be loaded.
6) `Enter selection:` enter **4** to select **FloppyEject** and remove the floppy.
7) Exit **<Maintenance>**
8) Reset the MIMOSA User Interface to get it in the language you had before the upgrade.

2.4. Finish Upgrade

To finish the upgrade, a customer specific backup has to be made on an empty floppy.

1) Go to **<Maintenance>**
2) Insert an empty floppy disk
3) `Enter selection:` enter **2** to select **Install**
4) `Enter selection:` enter **9** to select **Backup**
5) `Enter selection:` enter **1** to select **SiteSpecific**
6) `Save Area backup on floppy or tape [floppy,tape,?,q]:` enter **f** for `floppy`
7) After the backup is finished select **q** to quit.
8) Select **q** again
9) `Enter selection:` enter **4** to select **Tools**
10) `Enter selection:` enter **8** to select **EjectFloppy** and remove floppy from floppy drive
11) Select **q** to quit Tools menu
12) Exit **<Maintenance>**
13) Label floppy with backup with the following data and store it in a save place:

Site specific backup of <*hostname*>	
For Version:	VIPS1009
Name:	<*Your Name*>
Date:	<*Current date*>

3 Solved Problems from VIPS.1.0.05 to VIPS.1.0.09

- Autodelete problems are solved. The Processing Station gets no longer slow if many images are stored. Image partitions are no longer getting full. Hard disk space up to 27GB is supported now.
- Images with annotations can be zoomed and printed now.
- The date format is now set according to the language setting.
- Lists for selection are now sorted correctly, regardless of the case of the letters. Umlaute are fully integrated into the alphabetical order.
- The screen lock couldn't be disabled on some systems. It can be activated/deactivated now via the CCM configuration tool. To disable this function via CCM tool set the parameter "screensaver" to "off" and "time" to "0".
- The MIMOSA User Interface stability is increased significantly by increasing the maximum shared memory size and increasing the swap space by 50%.
- The system couldn't be booted after the message "`/usr-file system full`" had appeared. This happened when the machine switched to "Suspend Mode" and stored its current status in a file. Because this file was too big the system didn't boot again. To avoid this problem the "Suspense Mode" has been deactivated (e.g. CPR-package has been removed) now.
- A new way of drawing annotations has been introduced. To avoid blurred or dotted annotations on noisy background a black border is drawn around white annotations.
- A new modem initialization file for "MOTOROLA FAST 3265" modem has been introduced. The file is adapted to the latest state of the modem default settings.
- The "defaultrouter" can be changed via the MIMOSA configuration file "adc.cpf" by means of the CCM tool.
- After starting a new module in the Controller the user can start working right away now without waiting for the "Controller" button to return.
- Printing a test image now works. To print a test image go to "System Monitoring – Output – Test".
- Displaying an Infocounter does not result in an error anymore when reading a counter file that contains empty lines.
- DICOM Pixel Spacing contains "non square" values for rectangular cassette sizes. Proper rounding to three decimals is added to make sure that Siemens Magic View will support measurements on this image.
- The MIMOSA User Interface does not crash anymore when the space bar is pushed.
- It's no longer possible to enter the figure "0" when calibrating the measurement unit.
- If a grid is superimposed on the image you are forced to enter a grid distance as well.
- Image directories are no longer exported.
- A new icon for the different save to floppy functions is used. It shows a floppy with a pencil writing on it.
- It is possible now to view additional information in the "Service" mode of the MIMOSA User Interface. It is hidden, however, to all other users.
- In the Maintenance Menu the option "Tools→Message" has been corrected. It is now possible to send a message to the remote Processing Station via modem.

4 Solved Problems from DIPS1.0.03 to VIPS.1.0.09

If you upgrade from DIPS 1.0.03 to VIPS.1.0.09 the following problems have been solved in addition to the ones mentioned in point 3.

- The MIMOSA User Interface did not show all images. With the last SW version the file size of the images has been reduced, so it is possible to store more images on the hard disks. As the algorithm to calculate the maximum number of images still was based on the old image file size the number of maximum images which could be displayed in the MIMOSA User Interface was always too low. With this SW version the calculation works with the correct image file size.
- The MIMOSA User Interface Browser was not updated after long inactivity. When a user interface module is left alone for a long time without receiving any updates, it seems that it get starved by the Operating System. Now a “wakeup” signal is sent at least every 15 minutes.
- In the MIMOSA User Interface the <SEND> and <ARCHIVE> button have been removed if no destinations of this type have been configured.
- The MIMOSA User Interface crashed on zoom of some HR images (preferably 21cm x 43cm). This is solved now.
- Annotated thumbnail images are no more corrupted when annotation was applied.
- Annotated images are no more completely white if zoom has been applied on them.
- The MIMOSA User Interface crashed after the following sequence of actions:
  - Annotate an image
  - Undo the annotation
  - Collimate the image manually

  This is solved now.
- The annotation routine did not make the required conversion for inches. This is solved now.
- If the measurement calibration function of the annotation package is used without a value filled in, all subsequent measurements for that image were “0”. This is solved now.
- Black borders on thumbnails images now displayed when license is switched on.
- If in software option “ADCC Dose Monitoring SW” the user entered the dose value manually, the system sets <A> (means averaged over 50 images) in the status column instead <F> (fixed value). This is solved now.
- The true size layouts 11"x14"–2/0–Portrait and 14"x17"–2/0–Landscape , removed accidentally from list in VIPS1.0.03, are now available again.
- "Auto Reboot" of the Processing Station, done every Monday morning, is removed now.
- "Auto Reset of the UI" of the Processing Station, done every day, is removed now.
- The DICOM field “Performing Physician” replaces “Reading Physician”.
- Patient names and Patient first names, which contain more than one "space" in sequence, can be received by Processing Station without problems. Before images with such names have been refused by the Processing Station and consequently got stuck in the ADC Compact Digitizer output queue with “Error” status.
- If an image has been reprocessed on the Processing Station, the image gets now an altered Image_UID_number.
- Measuring on IMPAX Release 3.5 or higher is correct now. Image pixel spacing is sent correctly now (DICOM element 28,30). The parameter is now sent in pixel / mm instead of pixel / cm.
- Loading MIMOSA configuration file "adc.cpf" crashed when local menus were stored. This is solved now.

5 What's new in VIPS.1.0.09

- ADC Compact Auto QC Software is released now (= the Leeds phantom evaluation SW). This requires a license.
- ADC Compact Full leg/spine Software is released now. This requires a license. This option runs properly only with 192 MB or more.
- A new MIMOSA configuration file (adc.cpf file) is installed now in production. This configuration file provides a basic configuration for a complete ADC system and allows you start working without any configuration work.
- The Infocounters of the Processing Station have been expanded.
- Eject CD ROM and floppy from “Setup” in “System Module” possible now.
- ADB (AGFA DICOM Bridge) software is included now.

6 What's new from DIPS 1.0.03 to VIPS.1.0.09

If you upgrade from DIPS 1.0.03 to VIPS.1.0.09 the following functions are available in addition to the ones mentioned in point 5.

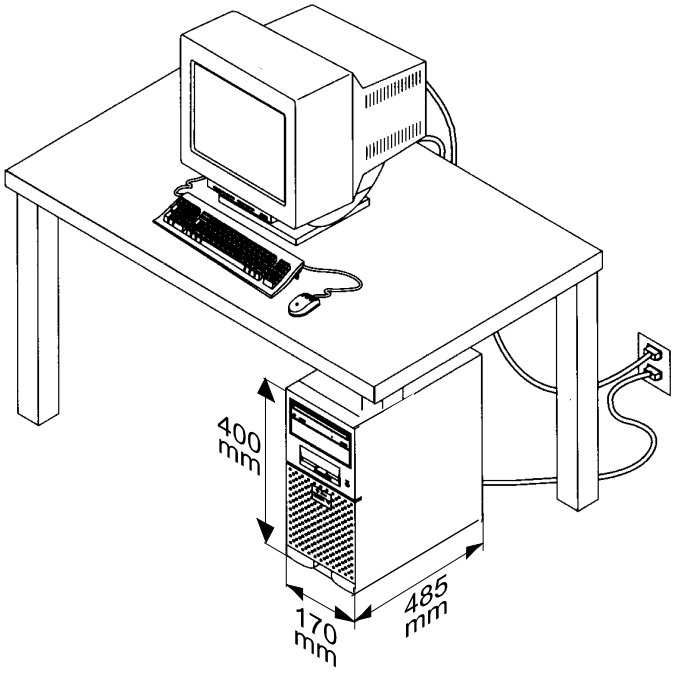
- A warning sign () on the hardcopy identifies manual reprocessed images. The position of the sign on the film is in the text field in the upper left corner and in the image on the lower right corner.
- In the MIMOSA User Interface the symbol 1:1 has been added to the true size print button.
- In the MIMOSA User Interface the "Station name" on the top of the Browser has been added. This name is defined via the CCM-tool.
- In the MIMOSA User Interface in the “System Monitoring” module an "Info” button for the following Network information has been added: Station name, Hostname, IP address, DICOM AE_title and DICOM Port number.
- In the MIMOSA User Interface in the “System Monitoring” module under “Output” the function "Print test image" has been added.
- In the MIMOSA User Interface in the “System Monitoring” module input and output queue lists have been enlarged.
- In “Annotation” the font sizes have been increased.
- The “ADCC Link SW” (two images on one film) does no require a license number anymore. Therefore the “ADCC Link SW” is removed from the license manager and is a part of the basic software.
- Printing true size (= 1:1) of images on film is now fully supported on DRYSTAR, LR3300 and LR5200.
- Printing true size (= 1:1) of images coming from an10”x12” image plate works now also with a film 14" x 17" in portrait.
- The new UNIX operating system software SOLARIS 2.6 is included now on the MIMOSA CD. The AGFA internal version number for it is “Sun.A.0.5.06”. This operating system software is a necessity for the SUN Workstation model ULTRA 10 (PCI BUS based).
- Support for all sizes of SCSI disks, formatted in BSD format e.g. SUN HD
- Images in waste bin are deleted before an upgrade.

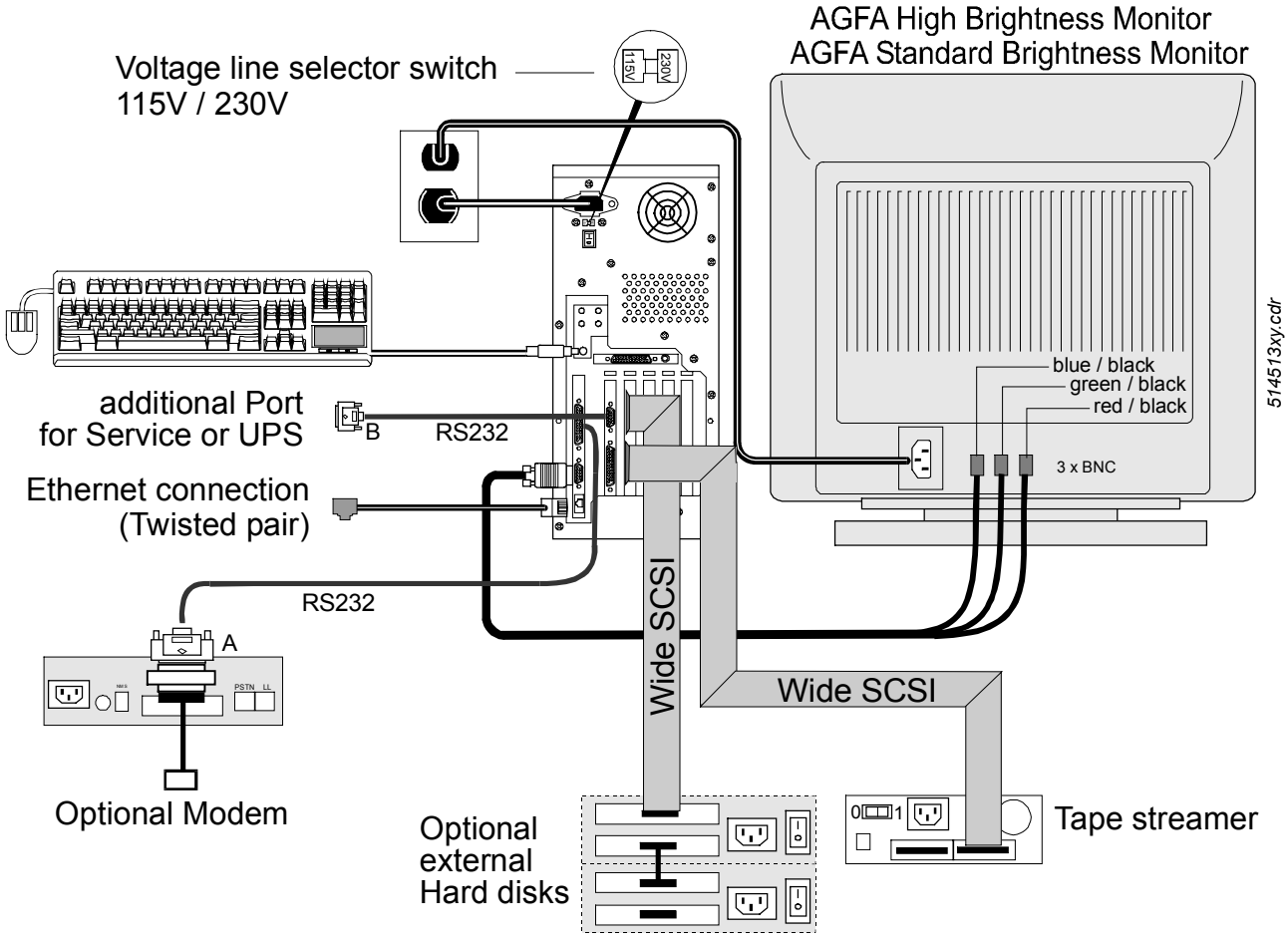
7 Known bugs not solved yet (VIPS.1.0.09)

- In some images there is a problem with the automatic collimation. A jagged black line is drawn diagonally over the image.
  Workaround: recollimate the image manually on the Processing Station.
- It happened once during testing that annotations were not printed on film.
  Workaround: reboot the Processing Station.
- Sometimes a UI reset is necessary to update the status flags "sent", "archived" and "printed". No workaround exists at the moment.
- When measurement calibration is used, an additional horizontal line appears below the calibration line in the thumbnail image. The line isn't visible in open mode or on a hardcopy. No workaround exists at the moment.
- The hard disk installation procedure of the Maintenance menu doesn't show the available SCSI-ID's. This problem appears only on SUN ULTRA SPARC 10 Processing Stations. No workaround exists at the moment.
- Number of free images in "System Module" displays always "0". No workaround exists at the moment.
- If transmission fails from the ADC Compact Digitizer to the Processing Station, it can take up to 15 minutes before a retry is done.
  Workaround: reset of ADC Compact Digitizer.
- With certain languages, an extra character ">" can appear in the date, e.g. "19.5.99>". This is a bug in Solaris OS. No workaround exists at the moment.
- After the appearance of the error message "Time-out loading image" the UI works very slow.
  Workaround: Run "Check System" and reboot the Processing Station.

Appendix A: Processing Station connection diagram

Please do not use the field service bulletin DD+DIS183.98E as it is wrong. Replace the corresponding page in that field service bulletin with this one.





Appendix B: ADC C APPLICATION NOTE

ADC C APPLICATION NOTE

Subject: ***System Release ADC C (COP 1112, VIPS1009, PRID1107)***

Component name/Option:

Component	Release vers./ Status	Option	Released	Medium/Format	ABC
Autoprocessing SW	**VIPS1.0.09/ C**			Unix CD-ROM	37J5M
		Interactive processing SW	Yes		37J6O
		ADCC Autorouting sw	Yes		368K2
		ADCC Uro tomo software	Yes		368L4
		ADCC Pediatric software	No		37J7Q
		ADCC Dental software	No		37J8S
		ADCC Full leg/spine sw	Yes		37J9U
		ADCC smart Print sw*	No		
		ADCC Annotation software	Yes		368M6
		ADCC Black border sw	Yes		368OB
		ADCC Dose monitoring sw	Yes		368PD
		ADCC Auto QC software	Yes		368QF
		ADCC Dicom store connection	Yes		37KD5
		ADCC Softcopy toolkit	Yes		37KE7
		ADC PS5000 upgr to ADCC	No		37KFA
ID software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J2F
Preview software	**PRID1.1.07/ C Java 1.1.7A**			Windows CD-ROM	37J3H
		ADCC Rislink toolkit sw	Yes		368JZ
COMPACT Custom/Conf. Tool	**COP_1112/ C CCM1.1.02/C**			3x HD/DOS 4x HD/DOS	
Shipment.CPF	CPF.S.4.0.05/**C**			1x HD/DOS	

* ADCC “overview printing” and “slide printing” will be replaced by one Software package :ADCC “smart print”

Appendix B

1 Scope of the Document

This document describes the application related issues of the customer release of ADC C (COP_1112, recommended COP_1215, order Nr.: CM+9.5145.1050.2,
VIPS.1.0.09,
PRID 1.1.07).

2 General

- New user manuals are available for the ID Software (code 2201B), Rislink (code 2209C)and Basic System (code 2200B). These manuals are also available in pdf format. You can order additional copies of the manuals by sending an e-mail to Hugo Geyskens (tel 7255). If you order the new user manuals, you should use the code followed by the country code. e.g. 2201B D for Germany.
- Performance of the System:

  A processing Station (VIPS) can handle 140 images standard resolution. This means that 1 VIPS can handle 2 ADCC at full load under the following conditions:

  -The images must be standard resolution
  -Only “on-line hardcopy” output from the Processing Station

  It is possible to connect maximum 3 ADCC’s to one Processing Station (VIPS) reducing the workload on each digitizer accordingly.

3 New Options

- Full leg/Spine. (user manual code 2214A)
- Auto QC software. (user manual code 2217A)
- ADCC Test Phantom Set (will be available from juli on)
- Holder for Full leg/spine (will be available from september on)
- ADB (Agfa DICOM Bridge) This software is included on the VIPS1009 CD. You can use this software to create study folders when ADCC is connected to a PACS system.
- DICOM worklist is available on PRID with the restriction of a fixed AE_title.
- New license manager on PRID under system administrator. The user can switch on the license himself. Because the old license numbers do not work on this version, a license card for Identification station, Preview, Rislink and Autorouting is delivered with the upgrade.

4 General Functions which are not implemented or supported yet:

- Overview and slide option. Will be available in next release (end 1999) as **one** new Software package: **“Smart Print”**
- Switching on licenses by the customer on the VIPS. The customer has to enter the license number which is validated by the system. Will be available in next release (end 1999)
- Pediatric and Dental software . Will be available september 1999.
- PRID on Unix.

5 System Requirements:

- System disk should be at least 2 Gbyte.
- Minimum 128 Mbytes of RAM for DIPS and basic VIPS operations.
- Minimum 192 Mbytes of RAM for full leg/spine software.
- Maximum 27 Gbytes of total diskspace is supported.

6 Bug Fixes

See Modification Instructions MED CSO for a detailed list of solved problems.

The most important bug fixes are:

- VIPS system slows down when image disks are completely filled up with images. (this was a problem with the auto delete function)
- VIPS User Interface stability is significantly improved. Crashes are dramatically reduced.
- Annotation in Zoom is possible.
- New way of drawing Annotations. To avoid dotted annotations a black line is drawn around white annotations.
- Date format is set according to the language setting on the VIPS.
- Lists of selection are sorted without taking into acount CAPS.
- PRID slow writing information to the chip is solved.
- Caps Lock can be used on PRID.

7 Known Bugs:

- Collimation:sometimes a jagged Black line is drawn diagonally over the image (so called Zorro effect). This will be solved in next release.
- Annotation not printed on film. Work arround: reboot the VIPS.
- If an image transmission to a certain destination (HCP, SCP, IMPAX) fails, the “sent” flag is reset to “Not sent”. However a UI reset is required to update the status flag.
- Rislink:Fixed AE_title for DICOM worklist.
- PRID: when a window outside the “remove Cassette” box is clicked, the “remove cassette” message box gets hidden and the system seems to be blocked. Workaround: Remove cassette.
- Time zone should be set in the PRID application (not in windows). Will be solved in next release.

Section 10

2.5
Software Installation
Upgrade to PRID1.1.10

DD+DIS048.00E

Order-No.: DD+DIS048.00E

1 Piece QKJK8 MA1

April 2000

ADC
System Components

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC Compact

Upgrade from PRID 1.1.02 to PRID 1.1.10
and
Upgrade from PRID 1.1.05 to PRID 1.1.10
and
Upgrade from PRID 1.1.07 to PRID 1.1.10

List of Contents

printed in Germany

1 General Information

1.1 Software Prerequisites:

ADC Compact Digitizer:	≥ COP_1215; (CM+9.5145.1050.2)
ADC Solo Digitizer:	≥ SOL_1108; (CM+9.5155.1050.2)
ADC Compact Processing Station – MIMOSA SW:	≥ VIPS1.0.09

1.2 Main Changes in PRID 1.1.10*

- The column according to which the DICOM worklist should be sorted can be configured now.
- Selecting from patient list, dicom work list and ascii work list with a character key does fully work now.
- Using Service Pack 5 for NT together with Pentium III caused problems in auto-detecting a cassette. This is solved now.
- The window size of the worklist window is kept within a session.
- Communication problems with ID-tablet solved.
- It is configurable now if the RIS system is contacted after every cassette insertion or just after the first time. This is done by means of the RIS settings dialog. Please refer to RIS-User manual for more information
- Called and calling AE_title are configurable now. The called AE_title is configured through the RIS-settings dialog, the calling AE_title is taken from the cpf-file.
- RIS-setting dialog is expanded for an option to select whether the RIS should be called for each cassette in “Study/Link” mode or not.
- Time zone settings from NT / Win95 / Win98 are used. Therefore it has completely been removed from the PRID-software. Thus Daylight Saving Time is handled according to the OS

* For further details see points 3, 4, 5, 6, 7, 8 and 9 of this document.

1.3 Required Time for the Upgrade

Less than 15 minutes.

1.4 Order No.: EB+4406.0730

Scope of delivery of software upgrade kit PRID 1.1.10

- 1 x CD ROM PRID 1.1.10
- 1 x Floppy disk Language files LNG.1.0.05 for PRID ≥ 1.1.05
- 1 x Documentation Upgrade procedure (DD+DIS048.00E)
- 4 x License card For Identification SW, for Preview SW, for RIS-link Toolkit SW, for Auto-routing SW

1.5 Released Options

The following table shows the released options.

OPTION	Released	New in PRID 1.1.10
ADCC ID SW	YES	No
ADCC Preview SW	YES	No
ADCC RIS-Link Toolkit SW	YES	No
ADCC Auto-routing SW	YES	No

2 Upgrade Procedure of PRID 1.1.10

Installation Procedure

No.	Procedure Steps	Display / Comment
1.	• Stop PREVIEW & IDENTIFICATION application if running.	
2.	• Make a backup of the complete current "C:\prid" directory somewhere on the hard disk (just to be sure).	
3.	• Insert CD ROM with PRID 1.1.10. The "Install Wizard" starts automatically. If not, eject and insert the CD ROM once again.	Window *"Welcome"* appears.
4.	• Select **<Next>**	Window *"User Information"* appears.
5.	• Fill in Name and Company and select **<Next>**	
6.	• Enter the new license number for the ADCC Preview SW and / or ADCC ID SW	Window *"Choose Destination Location"* appears.

Edit the license number written on the license card coming with PRID 1.1.10 for the ID-Station SW. The application will not run without that number.

7.	• Select destination folder **C:\prid** and select **<Next>**	Window *"Start copying files"* appears.
8.	• Select **<Next>**	Installation starts. Window *"Setup complete"* appears.
9.	• Select **<Finish>**	A DOS screen appears, before the adc.cpf file will be parsed. `Press any key to continue.` ☞ With WINDOWS 95 close the DOS box manually.
10.	• Press any key to continue.	Window *"Install Java Runtime Environment 1.1.8"* appears.
11.	• Select **<Yes>** to continue.	Window *"Welcome"* appears.
12.	• Select **<Next>**	Window *"Software license agreement"* appears. With WINDOWS 95: if asked to install WINSOCK2, answer **<no>.**

No.	Procedure Steps	Display / Comment
13.	• Select **<Yes>**	Window *"Select components"* appears.
14.	• Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **C:\prid\java** and select **<Next>**	Window *"Question"* might appear.
15.	• Select **<Yes>** to overwrite the contents of this directory.	Window *"Start copying files"* appears.
16.	• Select **<Next>**	Window *"Setup complete"* appears.
17.	• Select **<Finish>**	
18.	• Eject the CD ROM	
19.	• Start the Preview&Identification application.	The first time PRID 1.1.10 starts, you are asked for the site information. Please fill it in or change it if required. This window will not appear any more.
20.	• If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.	

3 Solved Problems from PRID 1.1.07 to PRID 1.1.10

- Selecting from patient list dicom work list and ascii work list with a character key does fully work now.
- Using Service Pack 5 for NT together with Pentium III caused problems in auto-detecting a cassette. This is solved now.
- The window size of the worklist window is kept within a session.
- Communication problems with ID-tablet solved. The default baudrate has been reduced to 57600. However this does not have an noticeable impact on the speed of writing data to chip. It only makes the transmission more stable.
- Called and calling AE_title are configurable now. The called AE_title is configured through the RIS-settings dialog, the calling AE_title is taken from the cpf-file.
- All characters from code page 850 are converted correctly know into Unicode.
- Pressing the key combination ALT+TAB is now interpreted according to the general Windows rules (switch tasks) and not as a normal keystroke anymore.
- The “Please remove cassette” dialog box stays always in front now. Thus it is avoided that it blocks the PRID application if the window is not reachable to close it by a mouse click.
- Selecting a patient record from the History list by means of the mouse is improved now.

4 Solved Problems from PRID 1.1.05 to PRID 1.1.10

If you upgrade from PRID 1.1.02 to PRID 1.1.10, the following problems have been solved in addition to the ones mentioned in point 3.

- Polling for the cassette and writing to the cassette has been changed. The detection of a cassette in the ID – tablet needs now less than half the time it did with PRID 1.1.05. In addition, the writing speed has also been increased.
- It is now possible to use the “CAPS LOCK” key within the application. It is not necessary any longer to restart the Preview&Identification application to get from one mode into the other. In addition, all extended ASCII characters are accepted now (e.g. “\”, “@”).
- Problem in the “Initialization → Read” option solved. When the “Read” button in PRID1.1.02/1.1.05 was used it read out all the initialization data correctly, but as soon as the cassette has been removed, the information jumped back to the default values. This is solved now.
- If a cassette was initialized with “plate type = AGFAHD” on PRID 1.1.02/1.1.05, the field “plate type” in the “INFO” of the Processing Station showed as “plate type” AGFATEST. In PRID 1.1.07 this is solved. However, the cassette has to be reinitialized with PRID 1.1.07.

5 Solved Problems from PRID 1.1.02 to PRID 1.1.10

If you upgrade from PRID 1.1.02 to PRID 1.1.10, the following problems have been solved in addition to the ones mentioned in point 3 and 4.

- Sometimes there have been some problems if you left the Preview&Identification application in Windows NT. This is solved now.
- Auto detection of cassette stops working after a while. This is solved now.
- Leading and/or trailing spaces are automatically removed from the fields "Radiologist" - "Examination" - "Sub examination". Leading and/or trailing spaces resulted in that some “Sub examination” have not been displayed in the Identification screen. This is solved now.

- RISlink
  There are existing three versions of the RIS data file

  Version0 or V0: Used in ADC70-ID-Stations
  Version1 or V1: Used in PRID 1.1.02
  Version2 or V2: Latest version

  The version number has to be in the RIS data file in the field 0019,1001. If the field 0019,1001 does not exist in the RIS data file, PRID 1.1.05 assumes version 0.

  PRID 1.1.02 did not check the version field 0019,1001 at all. It always assumed version 1. This could have caused problems if the RIS data files were sent to PRID 1.1.02 with the format of version 0 (i.e. ADC70 ID-Station format) or version 2.
  PRID 1.1.05 checks the contents of version field 0019,1001 and interprets the entries accordingly. If no version field is found in the RIS data file, PRID 1.1.05 assumes version 0.

  RIS data files accepted by the old ADC70 ID-Station are regarded as version 0 files, because the field 0019,1001 does not exist in there.

  For information about the format of the RIS data file please see the RISlink toolkit user manual.

6 What's new from PRID 1.1.07 to PRID 1.1.10

- The column according which the DICOM worklist should be sorted can be configured now.
- It is configurable know if the RIS system is contacted after every cassette insertion or just after the first time or on demand. This is done by means of the RIS settings dialog.
- RIS-setting dialog is expanded for an option to select whether the RIS should be called for each cassette in "Study/Link" mode or not. It can be selected by means of the option "`When running multiple mode`".
- Time zone settings from NT / Win95 / Win98 are used. Therefore it has completely been removed from the PRID-software. Thus Daylight Saving Time is handled according to the operating system used.
- Ftp-Server and NetMeeting are delivered on the PRID-CD now.
- In the DICOM worklist a "hide/unhide" button is introduced to show or hide the already selected patients from the worklist.
- A "Delete all" button is introduced in the patient list.
- In the RIS settings dialog the version of the patient data file can explicitly be chosen. This will then override the version in the data file.

7 What's new from PRID 1.1.05 to PRID 1.1.10

If you upgrade from PRID 1.1.02 to PRID 1.1.10 the following new functions are available in addition to the ones mentioned in point 6.

- New license management has been introduced in PRID 1.1.07. Licenses on the Preview&Identification application are not switched on any more by service, but by the system manager. Use only the license number of PRID 1.1.07. Others won't work.
  Four options are available now:
  - ADCC ID Software
  - ADCC Preview SW
  - ADCC RISLink Toolkit SW
  - ADCC Auto-routing SW

  The license numbers for the "ADCC ID Software" and "ADCC Preview Software" have to be entered during fresh installation or during upgrade.

The numbers for “ADCC RISLink Toolkit SW” and “ADCC Auto-routing SW” have to be edited in the new license manager.

- RIS function has been enlarged by two new modes of working.
  - “DICOM” mode Supports retrieval of DICOM worklist from the MITRA PACS Broker. However PRID 1.1.07 queries the PACS Broker only for the modality “CR”. Based on that the DICOM worklist is build. No other criteria (e.g. status of an examination in the PACS Broker) is queried for. In addition no alphabetical ordering is possible. Refer to new RISLink Toolkit User Manual for more information as well.
  - “Accession” Retrieves patient information from the MITRA PACS Broker by means of the accession number (= RIS–ID). Refer to new RISLink Toolkit User Manual for more information as well.
- GUI-tool (Graphical User Interface Design tool to customize Identification screen).
  - The GUI-tool has got an “Update”-button now. This allows to update the ID-screen template whenever you like. In PRID 1.1.05 every change was updated right away, which made the configuration very slow.
  - “Save” button is changed to “Apply” button.
  - “Menu font size” can be set now as well. This applies for the labels of the drop down menus and for the menu options themselves.
- Drop down menu options have been adapted to functionality of PRID 1.1.07

  Options removed from the Identification application:

  <u>Configuration – System Manager</u>
  - screensaver

  <u>Configuration – Service</u>
  - RISLink option covered by new license manager
  - Auto-routing option covered by new license manager
  - Full leg/spine option license moved to DIPS
  - Study option no license anymore

  Options added to the Identification application:

  <u>Configuration – Operator</u>
  - Always to front ID is always in front
  - Hold Status works together with RISLink now

  <u>Configuration – System Manager</u>
  - License ... New license management

  <u>Configuration – Service</u>
  - Site Info Allows to view/edit Site Info, edited during the SW installation
  - Reset Counters Reset Infocounters
- Infocounters are created now for Preview&Identification activities. The counters are stored in the file “C:\prid\log\counter.txt.
- “Info” under option “Help” is supported now. Please refer to the User Manual for an example.

8 What's new from PRID 1.1.02 to PRID 1.1.10

If you upgrade from PRID 1.1.02 to PRID 1.1.10 the following new functions are available in addition to the ones mentioned in point 6 and 7.

- The Preview&Identification application asks for confirmation if you want exit it.
- The Preview&Identification application cannot be started twice anymore.
- The patient list is automatically sorted now.
- In the patient list a patient can be selected by entering the first character of the name.
- If the Identification window is minimized and a cassette is inserted into the Identification tablet, the warning "`Please maximize ID station window`" is displayed.
- In the “Study” mode with activated “HOLD” function the customer has to press the “Proceed” button on the Preview station only on one image of the series. With PRID 1.1.02 every image of the series had to be "proceeded" seperately.
- The "Patient read" in the Identification screen is inactive now.
- The “ADCC Link SW” (two images on one film) does not require a license number anymore.
- In the cassette initialization menu the 35" x 43" cassette with 21" x 43" scan size can only be configured with high resolution.
- The “Time Host” feature (System Manager time host feature) has been introduced. This allows to select a host in the ADC cluster from where the time is retrieved. The path for the time host has to be set via the CCM tool. At the moment only the Preview&Identification software and the Processing Station support this feature, but not the ADC Compact Digitizer.
- The “Cpf Host” feature (System Manager cpf host feature) has been introduced. This allows to select a host in the ADC cluster from where the configuration file “adc.cpf” is retrieved during startup. The path for the cpf host has to be set via the CCM tool. At the moment only the Preview&Identification software and the Processing Station support this feature but not the ADC Compact Digitizer. As the “adc.cpf” file must be equal in the complete ADC cluster, please do not switch on this feature until it is implemented in the ADC Compact Digitizer as well.
- The file “adc32.exe” is included in the PRID 1.1.05 now. This file is necessary to work with the MITRA PACS broker and to do a query by accession number.
- The “GUI configuration” tool (GUI = Graphical User Interface) has been introduced. This allows to configure the Identification screen of the Preview&Identification Station. Before, you had to edit the file “layout.ini” manually.
- From the “Study UID” leading zeros are removed now.
- Driver for a buzzer implemented. A buzzer will be introduced in the Identification tablet soon.
- Test function for the sound devices implemented.
- Film layout determination in function of cassette.
- Installation procedure for language files implemented (Service Install languages).
- A new identifier for the “Proceed/Cancel” function on the Preview software has been introduced. A complete study can be “proceeded” by just pressing the “Proceed” button on one preview image. The Processing Station knows which images belong to a certain study and sends the rest of the images in that study to their predefined destinations as well (supported from VIPS.1.0.05 or higher on).

9 Known Bugs not solved yet (PRID 1.1.10)

- If no data is entered in the birth date field in the ID-screen it will default to 01-01-0001.
- It is not possible to install the languages if only the Preview application is running.
- When the ID-screen has been minimized and only the Preview screen is on, and than you activate the function "Show ID station" , the ID-screen doesn't pop-up to the front (also no warning) anymore. You have to restart the application.
- Deleting logfiles from the service menu is not possible. If necessary this has to be done via NT-Explorer.
- Accession number from patient list is not transferred into the ID-Screen.
- License numbers are not kept over an upgrade to PRID1110. They have to be re-entered during / after installation.
- The history list is not refreshed right away if an item is deleted.
- Logfiles cannot be deleted from the Service Menu of the ID-application. If necessary this has to be done via NT-Explorer.
- The version of the DICOM library is not visible in the Help menu.
- When receiving images, the license window is minimized and is not accessible anymore. Before you license any option make sure that nobody is sending images to that PRID-Station.

Section 10

2.6
Software Installation
Upgrade to VIPS.1.1.05

DD+DIS180.00E

MEDICAL IMAGING
CSO Customer Support Operations

Technical Documentation

Order-No.: DD+DIS180.00E
1 Piece T6TWQ MA1

May 2000

ADC System

Processing Station

Modification Instructions

Please file this document in section 10
of your Technical Documentation ADC System

Upgrade from DIPS 1.0.03 to VIPS.1.1.05
and
Upgrade from VIPS.1.0.05 to VIPS.1.1.05
and
Upgrade from VIPS.1.0.09 to VIPS.1.1.05

List of Contents

printed in Germany

AGFA

1 General Information

1.1 Software Prerequisites

ADC Compact Digitizer: ≥ COP_1112, COP_1215,
PRID (Preview & Identification SW): ≥ PRID1.1.07

1.2 Main Changes in VIPS.1.1.05*

- Operating System and application Sw are on two separate CDs
- Editable layouts and text fields
- Smart Print (licensed option) (for further information see appendix B)
- Print to non AGFA DICOM printers (for further information see appendix B)
- New license management
- Annotation bug fixed
- Print / sent / archived flag are set/updated correctly
- Negative number of images in wastebin not possible any more
- Zoomed print does not crash any more
- New collimation Sw introduced. Reduces collimation failure rate ("jagged white line" problem)

* For further details see points 3, 4, 5, 6, and 7 of this document.

1.3 Hardware Prerequisites

The experience has shown that 128 MB RAM is the absolute minimum for the Processing Station. However, for a good performance (UI speed, UI stability) 192 MB RAM memory is recommended. The Processing Stations coming from AGFA are equipped with 256MB RAM. This guarantees that the Processing Stations are working well with SW-Options with high RAM utilization (e.g. ADCC Full leg / spine SW) as well.
The system is only tested with 27 GB hard disk space for images. AGFA does not guarantee a smooth working if more hard disk space for images is used.
As the swap space has been increased at least a 2 GB HD is needed to store the Operating System and the Application plus approximately 180 images.

1.4 Released Options

So far the following options have been released:

OPTION	Released	New in VIPS1105/PRID1110
Interactive processing SW	Yes	No
ADCC Autorouting SW	Yes	No
ADCC Uro Tomo SW	Yes	No
ADCC Pediatric SW	No	-
ADCC Dental SW	No	-
ADCC Full leg / spine SW	Yes	No
ADCC Smart Print SW*	Yes	Yes
ADCC Annotation SW	Yes	No
ADCC Black Border SW	Yes	No
ADCC Dose Monitoring SW	Yes	No
ADCC Auto QC SW	Yes	No
ADCC Dicom Store Connection SW	Yes	No
ADCC Softcopy Toolkit SW	Yes	No
PS5000 upgrade to ADCC	Yes	No
ADCC PRID on UNIX SW	No	No

* The former options “ADCC Overview Printing SW” and “ADCC Slide Printing SW” are replaced by one Software package “ADCC Smart Print SW”

1.5 Release Environment

These versions on the hardcopy devices and the IMPAX Stations (and subsequent releases respectively) guarantee that all functions on the Processing Station are supported properly. Other combinations have not been tested and may result in restrictions in functionality.

LR5200	≥ LTP01901
LR5200 Controller	≥ AOS32946 /C ≥ CAD32946 /C ≥ ECU32947 /C
DICOM	≥ DCM2.3.4/C
IMPAX	≥ R3.5_v.2.4.0/C

1.6 Performance - Image Input Rate

A Processing Station can handle an input of 140 images scanned with standard resolution. This means that one Processing Station is able to handle two ADC Compact Digitizers at full load under the following conditions:

- The images are standard resolution.
- There are not more than 27GB memory space for images hooked to the Processing Station.
- Only the “Online Hardcopy” output is used.

It is also possible to connect maximum three ADC Compact Digitizers to one Processing Station. However, this reduces the possible workload on each digitizer accordingly. It is not recommended to connect more than three Digitizers to one Processing Station.

1.7 New License Policy on Processing Station application Software VIPS.1.1.05

With VIPS1.1.05 a new license policy is established similar to PRID1.1.07. The policy now is that the license can be switched on by the hospital responsible (FSE, system administrator, user), i.e. the license management has been moved from the "Maintenance Menu" to the "System Monitoring". Please refer to the user manual for more information.
A licensed option can be switched on in demonstration** mode or with a full license. A full license requires a sixteen digit license number. This is a dedicated number for each of the above mentioned software options.
The license number is created in production and is communicated to the client by means of a license card which comes with the ordered software option.
Licenses already used with VIPS1.1.09 or older will stay active after the upgrade.

** The demonstration license is valid 30 days. After this time period the licensed option is deactivated again and cannot be switched on in "DEMO" mode any more.

1.8 Printing on VIPS.1.1.05

VIPS.1.1.05 supports the following printers. Only these printers are tested and verified.
For details see appendix B.

Please use only CCM1104 for the configuration of the printers listed below.

Printer
3M - Imation 8100
3M - Imation 8300
3M - Imation 8500
3M - Imation 8600
3M - Imation 8700
3M - Imation HQ969
Agfa DI2000
Agfa DI3000 (11 x 14 film)
Agfa DI3000 (14 x 14 film)
Agfa DI3000 (14 x 17 film)
Agfa DI4500
Agfa DI4500 (low resolution)
Agfa DI4700
Agfa LR3300
Agfa LR5200
Agfa LR5200 High Res.
Kodak KELP100 XLP
KODAK KELP1120 with MIM DPS controller
KODAK KELP1120 with 'dicom print spooler model 100', 'Printer interface unit' or the 'DICOM print server' controllers
KODAK KELP2180 with MIM DPS controller
KODAK KELP2180 with with 'dicom print spooler model 100', 'Printer interface unit' or the 'DICOM print server' controllers
Kodak MLP-190
KODAK XLT7720
Sterling DI400
Sterling LP400
Sterling SIJ100
Sterling SIJ400

1.9 Order No.: EB+44060721

Scope of delivery Software Kit VIPS.1.1.05

- 2 CD ROM: MIMOSA VIPS1.1.05 + MIMOSA OS AGOS.A.0.6.01
- 1 Floppy disk Upgrade support floppy
- 1 Floppy disk Language disk LNG1.0.05 for the (V)DIPS Software ≥ DIPS1.0.03
- 1 Documentation Upgrade procedure
- 1 Floppy disk Empty disk, necessary for the upgrade procedure
- 2 DAT-tapes Necessary for the backup of the system disk
- 5 Floppy disks CCM tool version 1104
- 1 Floppy disk ADB configuration tool with documentation

1.10 Required Time for the Upgrade

The upgrade itself takes max. 90 minutes (depends strongly on the speed of the CD ROM drive). The upgrade can be done with or without saving and restoring the images from the System Disk. It takes about 50 minutes / 100 images to save them to and restore them from DAT-tape (calculated with an average image size of 5.9MB).

Example for a 2.1GB system disk:
90 min for mere upgrade + 100min for 200 images = 190min = 3hours 10min

Example for a 4.2GB system disk:
90 min for mere upgrade + 260 min for 520 images = 330min = 5hours 30min

Reduce the upgrade time as far as possible. Remove all the images (also OFLS) the customer does not need any more on the Processing Station.

1.11 Useful Accessories

Cleaning tape
DAT-tape Necessary if “Offline” images have to be saved.

2 Upgrade Procedure

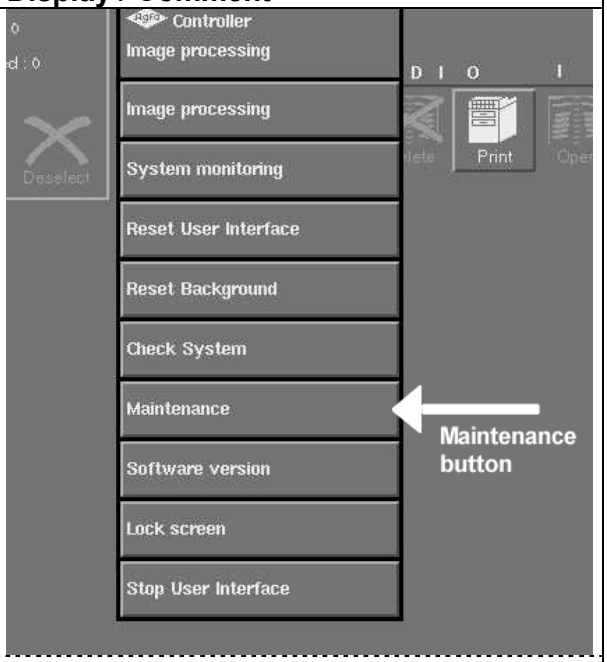
2.1 Preparing Actions

Steps 1 – 4 are only necessary if the images on the system disk are needed again after the upgrade.

No.	Procedure Steps	Display / Comment
1.	Insert cleaning tape into DAT-tape drive and wait until it is ejected again.	
2.	As the backup of the images can take very long (approx. 25min/100images) remove no more needed images from the Processing Station	
3.	Check if the DAT-tape drive is accessible.: • Switch on DAT-tape drive • go to **`Maintenance`** and hit `<Return>` • Type: **`4`** to select **`Tools`** and hit `<Return>` **`1`** to select **`Terminal`** and hit `<Return>`	`A new terminal window appears.`
4.	. Enter **`mt -f /dev/rmt/0lb rewind`** in the terminal window.	If you get no response and just return to the prompt everything is ok. If you get the response "`No tape loaded or drive offline`" everything is ok. If you get the response "`No such device or address`" the DAT-tape drive is connected on the wrong SCSI connector on the rear of the Processing Station. Please shutdown the Processing Station and connect your DAT-tape drive

If the DAT-tape drive is not connected to the correct SCSI port, the backup and restore of the images will fail.

5.	Save "Offline images" to DAT-tape. If they are not needed anymore skip this step. Time to save is approx. 25 minutes / 100 OFL images.	

No.	Procedure Steps	Display / Comment
6.	go to **<Maintenance>** and hit <Return>	
7.	Select: **3** to select **Repair** and hit <Return> **6** to select **ImportExport** and hit <Return> **4** to select **DirList** and hit <Return>	
8.	Insert an empty DAT-tape into the DAT-tape drive. Make sure that the write protection is off on the DAT-tape	
9.	Select: **5** to select **Save** and hit <Return> **q** to exit this menu and hit <Return>	
10.	Check and write down the current hostname, current ip-address and netmask of the Processing Station. This data will be needed during the software upgrade.	
11.	go to **<Maintenance>** and hit <Return>	
12.	Select: **3** to select **Repair** and hit <Return> **4** to select **SystemInfo** and hit <Return>	

No.	Procedure Steps	Display / Comment

13.	Move to the section "`Workstation Networking Environment`" in the system information. The following information should appear:	`....`
		`----- Workstation Networking Environment -----`
		`Workstation : vips220 192.9.200.220`
		`Broadcast : - 192.9.200.255`
		`Netmask : - 255.255.255.127`
		`....`

14.	Enter the Hostname of the Processing Station (= Workstation) (in the above example "**`vips220`**").	
15.	Enter the IP address of the Workstation (in the above example "**`192.9.200.220`**").	
16.	Write down the Netmask of the Processing Station (in the above example "**`255.255.255.127`**"). ☞ This field maybe empty if no subnetting is done.	
17.	`Select:` **`q`** to exit this menu and hit `<Return>`	

☞ Steps 18 - 25 are only required with version MIMOSA DIPS1.0.03. They are not needed if version MIMOSA VIPS1.0.05 or higher is installed on your Proc. Station.

18.	Insert the "UPGRADE SUPPORT floppy"	
19.	go to **`<Maintenance>`** and hit `<Return>`	
20.	`Select:` **`4`** to select **`Tools`** and hit `<Return>` **`7`** to select **`FloppyDir`** to mount the floppy and hit `<Return>` **`1`** to select **`Terminal`** and hit `<Return>`	`A new terminal window appears`
21.	Enter **`/floppy/floppy0/install.csh`**	`OK to continue`
22.	Enter **`yes`**	
23.	Enter **`eject floppy`** in the terminal window	
24.	Enter **`exit`** in the terminal window	
25.	`Select:` **`q`** to exit this menu and hit `<Return>`	

2.2 Upgrade Procedure

No.	Procedure Steps	Display / Comment
1.	go to **<Maintenance>** and hit <Return>	
2.	Select: **2** to select **Install** and hit <Return> **2** to select **Software** and hit <Return> **3** to select **Upgrade** and hit <Return>	If the question „Remove all OFL-files" appears answer it with **yes**

Step 3 can be skipped if the current images are not needed anymore after the upgrade.

3.	Insert an empty DAT-tape into the DAT-tape drive and wait until the green LED on the DAT-tape drive stops flashing.	
4.	Take a System backup on tape now [yes, no, skip, ?, q]:	Enter "yes" if the current images are still needed after the upgrade. Saving images to DAT-tape can take very long (approx. 25min/100images). Enter "skip" if the current images are not needed anymore after the upgrade. Ok to continue [yes, no, ?, q]:
5.	Enter **yes**	SaveArea backup on floppy or tape [floppy, tape, ?, q]:
6.	Enter **floppy**	Put floppy into drive and hit <return>:

Don't enter "tape" → Due to a software bug this crashes the upgrade procedure.

7.	hit **<return>**	Ok to reboot from cdrom [yes, no, ?, q]:
8.	Enter **yes**	
9.	Insert the CD ROM with AGOS.A.6.01 into CD ROM drive	Mount bootable CDROM and hit <return>:
10.	hit **<return>**	
11.	Booting from CD ROM takes about 5 minutes	
12.	Select: **1** to select **Install** and hit <Return> **1** to select **Upgrade** and hit <Return> **3** to select **Upgrade** and hit <Return>	Use the floppy as JumpStart floppy [yes, no, ?, q]:

No.	Procedure Steps	Display / Comment
13.	If the floppy is still in the drive, enter **no**	`Install O.S. software from ./SYSTEM/ AGOS.A.6.01 [yes,no,?,q]:`
14.	Enter **yes**	The Solaris installation program starts now. The `Solaris Installation Program` window appears
15.	Hit **<Continue>**	The `Identify This System"` window appears
16.	Hit **<Continue>**	The `Hostname` window appears
17.	Enter the old hostname and hit **<Continue>**	The `Network Connectivity` window appears
18.	Hit **<yes>** and hit **<Continue>**	The following window appears only with ULTRA SPARC 1 hardware and if a fast ethernet board is installed. Here you can choose between hme0 **(=** 100mbit/10mbit auto sensing) or le0 (= 10 mbit onboard). We recommend to select hme0. The `Primary Network Interface` window appears
19.	Hit **hme0** and hit **<Continue>**	The `IP Address"` window appears
20.	Enter the old ip_address and hit **<Continue>**	The `Confirm information` window appears
21.	Check if the entries are correct and confirm by hitting **<Continue>.**	The `Subnet` window appears
22.	Hit **<no>** . If subnetting is used hit **<yes>** and then enter the old subnetmask. hit **<Continue>.**	The `Time Zone` window appears
23.	Hit **<Geographic region>** and hit **<set>**.	The `Geographic region"` window appears
24.	Select **<Local Region>** and **<Time zone>** and hit **<Continue>.**	The `Date and Time` window appears
25.	Modify **<Date>** and **<Time>** if not correct. and hit **<Continue>.**	The `Confirm information"` window appears
26.	Check if the entries are correct and confirm by hitting **<Continue>.**	Successful system configuration is confirmed by the message `"System identification is completed."`

Now the Solaris operating system files are copied to the Processing Station. After about 15 minutes it will be rebooted automatically. After a few minutes the following message is displayed.

```
Please log on as root and enter:
/mimosa.install
```

No.	Procedure Steps	Display / Comment
27.		`Hit <return> to continue`
28.	hit **<return>**	`vips220 console login:`
29.	Enter **root**	`Password:`
30.	enter **adcroot**	
31.	Enter **newfs -i 16384 -m 2% /dev/rdsk/c0t0d0s7**	On the query `Construct a new file system /dev/rdsk/c0t0d0S7 (y/n)?`
32.	Enter **y**	
33.	Enter **/mimosa.install**	`OK to run with option upgrade[yes, no, ?, q]:`
34.	Enter **yes**	installation takes about 15 – 20 min.

If you want to restore the old images, insert the backup DAT-tape into the drive now (if not already in) and wait until the green light stops flashing.

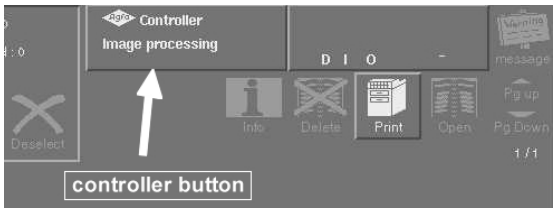
35.		`Restore directory /images from tape [yes, no, ?, q]:`
36.	If you want to restore the old images enter **yes** If you do not need the old images anymore enter **no**	
37.	Enter **yes**	`Install SW from ./MIMOSA/VIPS1105[yes, no, ?, q]:`
38.	Insert CD ROM with VIPS 1.1.05	

Steps 39 and 40 appear only if under step 36 the old images from the backup DAT-tape have not been restored.

39.	Insert the floppy with SaveArea backup.	`Choose a SaveArea [?, ??, q]:`
40.	Enter **2** to select **floppy**	

Don't enter "`tape`" → Due to a software bug this crashes the upgrade procedure.
Now the ORACLE database files, MIMOSA application files are copied to the Processing Station and the MIMOSA software is initialized with the old configuration data. This takes about 20 minutes

41.		`Ok to reboot:`
42.	Enter **yes**	
43.	The Processing Station reboots once again and starts up with the MIMOSA User Interface.	

No.	Procedure Steps	Display / Comment
44.	If the old images do not appear run a **<Check System>** via the controller button in the MIMOSA User Interface. It can take a while until the new images will show up.	
45.	Eject the DAT-tape and the floppy	

2.3 Installation of the Language Files

With this upgrade the language files are not saved. Therefore they have to be reinstalled.

No.	Procedure Steps	Display / Comment
1.	go to **<Maintenance>** and hit <Return>	
2.	Insert language disk	
3.	Select: **2** to select **Install** and hit <Return> **7** to select **Languages** and hit <Return> **1** to select **CopyLanguages** and hit <Return> **4** to select **FloppyEject** and hit <Return>	All Language files will be loaded.
4.	Remove the floppy	
5.	Exit **<Maintenance>**	
6.	Reset the MIMOSA User Interface to get it in the language you had before the upgrade.	

2.4 Finish Upgrade

To finish the upgrade, a customer specific backup has to be made on an empty floppy.

No.	Procedure Steps	Display / Comment
1.	go to **<Maintenance>** and hit <Return>	
2.	Insert an empty floppy disk Select: **2** to select **Install** and hit <Return> **9** to select **Backup** and hit <Return> **1** to select **SiteSpecific** and hit <Return> **4** to select **FloppyEject** and hit <Return>	Save Area backup on floppy or tape [floppy,tape,?,q]:
3.	enter **f** for floppy	
4.	After the backup is finished hit **q** to quit.	
5.	Hit **q** again	
6.	Select: **4** to select **Tools** and hit <Return> **8** to select **EjectFloppy** and hit <Return>	
7.	Remove floppy from floppy drive	
8.	Hit **q** to quit Tools menu	
9.	Exit **<Maintenance>**	
10.	Label floppy with backup with the following data and store it in a save place:	

Site specific backup of <*hostname*>	
For Version:	VIPS1105
Name:	<*Your Name*>
Date:	<*Current date*>

3 Solved Problems from VIPS.1.0.09 to VIPS.1.1.05

- Print / sent / archived flag set correctly.
- Screensaver settings are only defined by means of the cpf-file now. Solaris settings do not interfere any more.
- Problems of "jagged white line" and "black reduced images" are solved by a new collimation algorithm. This also increases the reliability of the collimation algorithm.
- The number of images in the system module always remained "0", no matter if the system was fresh installed or has been used for several days. The algorithm for counting the available images is correct now.
- Sometimes the Print Preview on the Processing Station and the actual deviated from each other. This is solved now.
- Printing / sending of an image with annotations failed. The image was printed without the annotations. This is solved now.
- In some languages the date was followed by a ">". This is solved due to a new Solaris operating system.
- There was no study date filled in into corresponding DICOM field for full leg / full spine examinations. The study date is now filled in correctly.
- Sometimes it was not possible to install UPS software. Now, the UPS software is a part of the MIMOSA release again.
- If the collimation shape "circle" is moved out of the left image border it works OK as well now.
- Printing 30x15 cm cassettes through on-line channel gave minimized images on film. This is solved now.
- After selecting three images and changing the distance between them in "full leg / full spine" software the stitching and annulment buttons were no longer visible. After selecting white images (unexposed for test) the UI crashed. This is solved now.
- When attempting to print a zoomed image and the zoomed area was at the borders of the image the printing crashed. The hard copy was not printed. This did not occur if the zoomed area was in the center or nearby. The problem occurred only with 15 x 30 cm cassettes.
- On systems on which a lot of manually deleted images existed it could happen that the images in the wastebin got a negative number. Autodelete then was not able to delete the images. This is solved now.
- If images were sent through the on-line channel, and could not be delivered successfully, it could block the transmission from the Digitizer to the Processing Station as well. A time-out (default: 5min) has been introduced which can be configured by means of the DICOM_SEND_TIMEOUT_DEFAULT in the cpf-file.
- Statistics in the Infocounter were not correct. Wrong calculations in the Infocounter are corrected now.

The following item is more likely based on misunderstanding than on a software problem:

- Umlaut letters are sorted after "z" in the patient list. Sorting happens according to the installed language. So, as soon as you switch from normal mode to service mode, sorting is done according to the English Language.

4 Solved Problems from VIPS.1.0.05 to VIPS.1.1.05

If you upgrade from VIPS.1.0.05 to VIPS.1.1.05 the following problems have been solved in addition to the ones mentioned in point 3.

- Autodelete problems are solved. The Processing Station gets no longer slow if many images are stored. Image partitions are no longer getting full. Hard disk space up to 27GB is supported now.
- Images with annotations can be zoomed and printed now.
- The date format is now set according to the language setting.
- Lists for selection are now sorted correctly, regardless of the case of the letters. Umlaute are fully integrated into the alphabetical order.
- The screen lock couldn't be disabled on some systems. It can be activated/deactivated now via the CCM configuration tool. To disable this function via CCM tool set the parameter "screensaver" to "off" and "time" to "0".
- The MIMOSA User Interface stability is increased significantly by increasing the maximum shared memory size and increasing the swap space by 50%.
- The system couldn't be booted after the message "`/usr-file system full`" had appeared. This happened when the machine switched to "Suspend Mode" and stored its current status in a file. Because this file was too big the system didn't boot again. To avoid this problem the "Suspense Mode" has been deactivated (e.g. CPR-package has been removed) now.
- A new way of drawing annotations has been introduced. To avoid blurred or dotted annotations on noisy background a black border is drawn around white annotations.
- A new modem initialization file for "MOTOROLA FAST 3265" modem has been introduced. The file is adapted to the latest state of the modem default settings.
- The "defaultrouter" can be changed via the MIMOSA configuration file "adc.cpf" by means of the CCM tool.
- After starting a new module in the Controller the user can start working right away now without waiting for the "Controller" button to return.
- Printing a test image now works. To print a test image go to "System Monitoring – Output – Test".
- Displaying an Infocounter does not result in an error anymore when reading a counter file that contains empty lines.
- DICOM Pixel Spacing contains "non square" values for rectangular cassette sizes. Proper rounding to three decimals is added to make sure that Siemens Magic View will support measurements on this image.
- The MIMOSA User Interface does not crash anymore when the space bar is pushed.
- It's no longer possible to enter the figure "0" when calibrating the measurement unit.
- If a grid is superimposed on the image you are forced to enter a grid distance as well.
- Image directories are no longer exported.
- A new icon for the different save to floppy functions is used. It shows a floppy with a pencil writing on it.
- It is possible now to view additional information in the "Service" mode of the MIMOSA User Interface. It is hidden, however, to all other users.
- In the Maintenance Menu the option "Tools→Message" has been corrected. It is now possible to send a message to the remote Processing Station via modem.

5 What's new in VIPS.1.1.05

- Printing of slides and overview print are now possible by means of the "Smart Print" option. This replaces the former ADC-overview Sw and the ADC slide printing Sw.
- The text annotation font size always corresponds to the last selected one.

6 What's new from VIPS1.0.05 to VIPS.1.1.05

- ADC Compact Auto QC Software is released now (= the Leeds phantom evaluation SW).
- This requires a license.
- ADC Compact Full leg/spine Software is released now. This requires a license. This option runs properly only with 192 MB or more.
- A new MIMOSA configuration file (adc.cpf file) is installed now in production. This configuration file provides a basic configuration for a complete ADC system and allows you start working without any configuration work.
- The Infocounters of the Processing Station have been expanded.
- Eject CD ROM and floppy from “Setup” in “System Module” possible now.
- ADB (AGFA DICOM Bridge) software is included now.

7 Known bugs not solved yet (VIPS.1.1.05)

- The collimation frame is white instead of black.
- The film size buttons in the Smart Print UI sometimes display incomplete names.
- Slides of large film formats (e.g. 14 x 17 x inch) cannot be printed.
- Some images are not displayed correctly when they are pre-selected for Smart Print if their default film size is not available on the active printer

Restrictions:

- for restrictions of *Smart Print / Printing to non MG3 layout printers* please see appendix B.
- adb configuration files from VIPS 1.0.09 are not compatible with VIPS.1.1.05. The configuration has to be done again by means of the adb-configuration tool.

8 Printer Set-Up for Smart Print

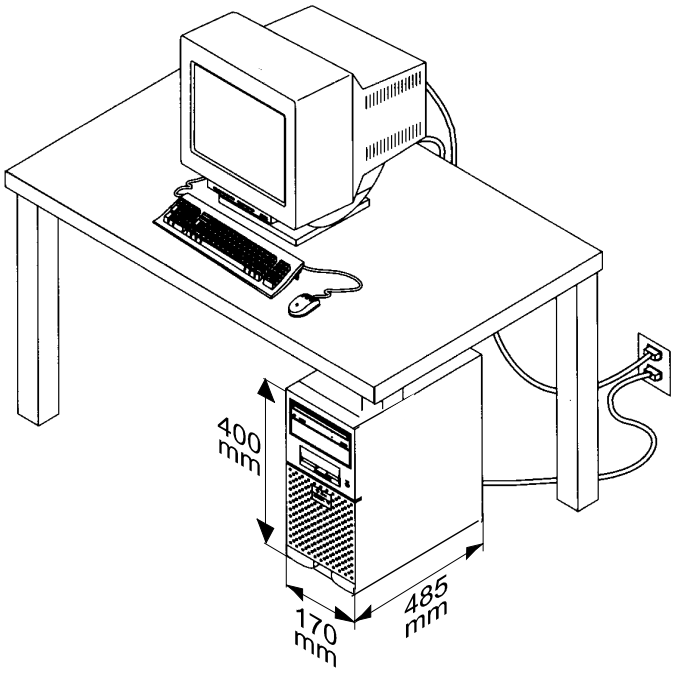
- To make full usage of Smart Print, you have to adapt your AGFA printer. The file pms.ini has to be created/modified. You have to add the following entry to this file.

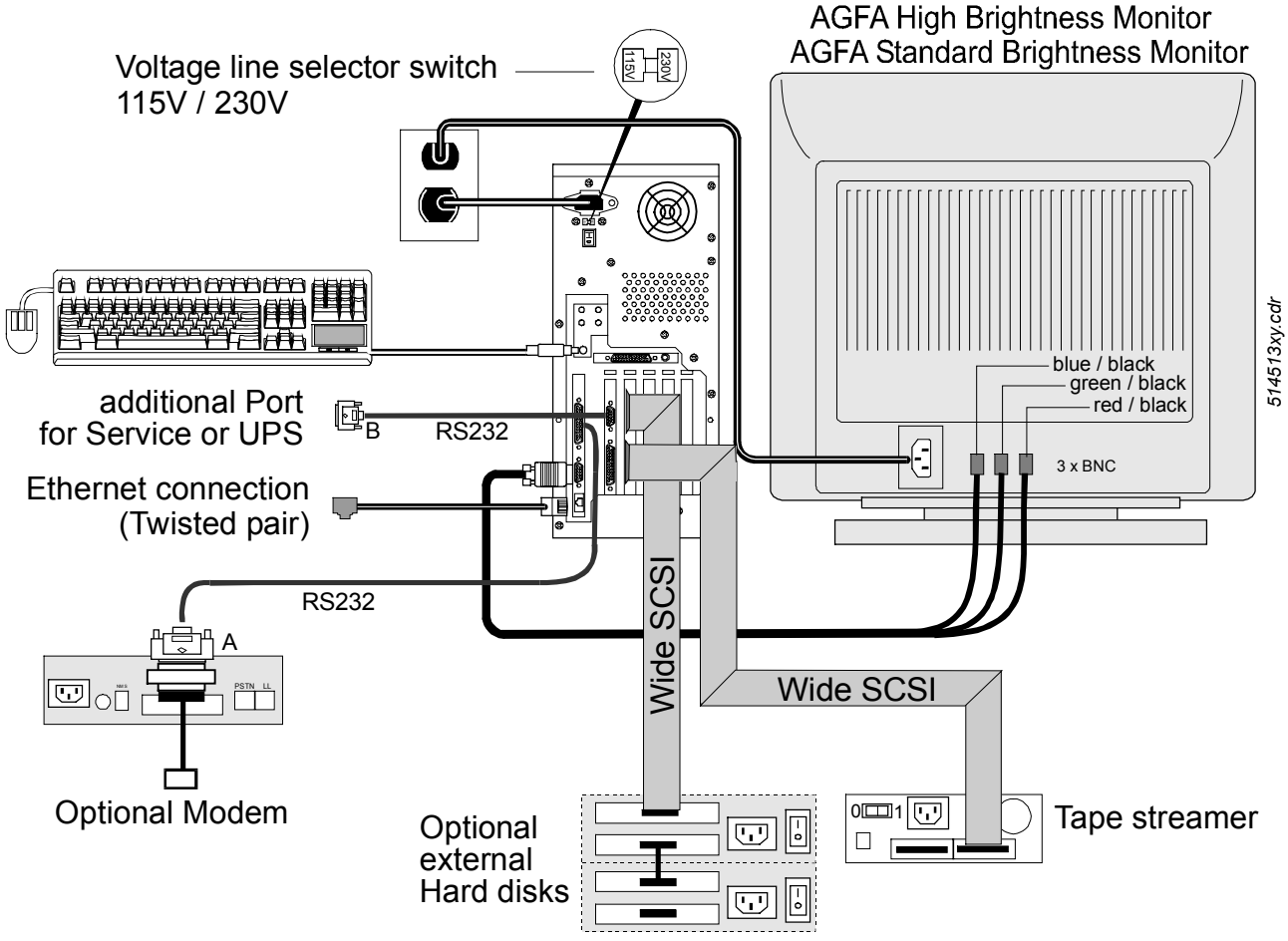
```
[ADC_PS1]
IDF=C:/PMS2000.IDF
```

In the above example the AE-Title of the Processing Station is [ADC_PS1].
For each Processing Station which uses Smart Print you have to create these two lines in your pms.ini file.
Otherwise true size printing will not give true size on film.

Appendix A: Processing Station connection diagram

Please do not use the field service bulletin DD+DIS183.98E as it is wrong. Replace the corresponding page in that field service bulletin with this one.





Appendix B: Smart Print Service Information

Scope
This document describes the working and configuration of the smartprint option and the option to print on 'non-mg3 layout printers'. It refers to the software version VIPS.1.1.05. Later software versions might have new features or more data.

'Non mg3 layout' printers
Up till recently, all Agfa printers were able to handle the so called 'mg3 layouts'. This means that a layout number was sent to the printer. This number identified a unique combination of film size, orientation, image box and text box sizes and positions.
New Agfa printers and printers from other manufacturers are not able to handle these 'mg3 layout numbers'. We refer in this document to these printers as being 'Non mg3 layout' printers.

General
Support for non-Agfa printers and improved layout control is obtained by doing all image processing, film composition, image scaling or drawing of texts on the VIPS Processing Station. The result is sent as one bitmap that is drawn on the specified film size in a standard DICOM 1/1 layout.
The advantages of this way of working are that the printer only needs to meet the lowest possible requirements, printing a single image on a 1/1 layout. This gives the user almost total layout control.
The disadvantage of this system is that bandwidth usage, memory usage and CPU usage are considerably higher than with the use of mg3 layouts. The configuration is also a little more complicated.

Smart Print
This new mechanism of creating a print job is used to have extended layout control on the Processing Station for both printers that are able to handle MG3 layouts and those that are not able to handle MG3 layouts. This software function, named 'Smartprint', is however optional and needs to be acquired separately.

Online Printing
Online printing to 'non mg3 layout' printers uses the same mechanisms. The Processing Station gets an mg3 layout number from the id-station via the digitizer. As the printer cannot handle these numbers, the Processing Station converts this number to the equivalent layout information. Then, this layout information is modified to fit on the available print medium and to fit in the available image box. This information is obtained from the printer configuration file. If the specified film size is not available on this printer then the closest match is used.
The result is a single bitmap that is sent to the printer, along with the required Dicom information to identify the 1/1 DICOM layout on the required film size.
Currently, no true size printing is foreseen for online printing to 'non mg3 layout' printers. This will be handled from software version VIPS.1.2.00 on. At this moment you can get true size printing by using the interactive smartprint module.

Failing print jobs
Print jobs can fail. In the current software version, the print jobs using the new printing mechanism that fail are not automatically resubmitted. The user has to restart these jobs manually. This issue will be handled from the VIPS.1.1.06 software on.

Online printing using hold

In this version of the software you are not able to use the hold function in combination with online printing to 'non MG3 printers'. This problem will be solved in the VIPS.1.1.06 version of the software onwards.

ID Station limitations

Currently the ID Station is not able to display other film formats than 8 X 10 Inch, 11X14 Inch and 14 X 17 Inch. You can reach all other film formats by modifying the cpf-file and replacing the desired film format with one of the three available formats that matches best. The Processing Station will automatically reconvert this film size to the best match available on the printer.

Supported printers

The following is the default set of printers and their main characteristics that are available and tested by the integration engineering team.

Printer	MG3 layout support	CCM code	Filmsizes
3M - Imation 8100	N	3M_8100	14 X 17 IN
3M - Imation 8300	N	3M_8300	8 X 10 IN
3M - Imation 8500	N	3M_8500	11 X 14 IN
3M - Imation 8600	N	3M_8600	8 X 10 IN
3M - Imation 8700	N	3M_8700	14 X 17 IN
3M - Imation HQ969	N	3M_HQ969	14 X 17 IN 11 X 14 IN 8 X 10 IN
Agfa DI2000	Y	DI2000	8 X 10 IN
Agfa DI3000 (11 x 14 film)	Y	DI3000 1114	11 X 14 IN
Agfa DI3000 (14 x 14 film)	Y	DI3000 1414	14 X 14 IN
Agfa DI3000 (14 x 17 film)	Y	DI3000 1417	14 X 17 IN
Agfa DI4500	N	DI4500	10 X 12 IN 8 X 10 IN
Agfa DI4500 (low resolution)	N	DI4500lr	10 X 12 IN 8 X 10 IN
Agfa DI4700	N	DI4700	10 X 12 IN 8 X 10 IN
Agfa LR3300	Y	LR3300	14 X 17 IN 11 X 14 IN 8 X 10 IN
Agfa LR5200	Y	LR5200	14 X 17 IN 11 X 14 IN 8 X 10 IN
Agfa LR5200 High Res.	Y	LR5200HR	14 X 17 IN 11 X 14 IN 8 X 10 IN
Kodak KELP100 XLP	N	KOD_KELP100XLP	14 X 17 IN 14 X 14 IN 11 X 14 IN
KODAK KELP1120 with MIM DPS controller	N	KOD_KELP1120_DPS	14 X 17 IN 14 X 14 IN 11 X 14 IN 8 X 10 IN
KODAK KELP1120 with 'dicom print spooler model 100', 'Printer interface unit' or the 'DICOM print server' controllers	N	KOD_KELP1120_PIU	14 X 17 IN 14 X 14 IN 11 X 14 IN 8 X 10 IN
KODAK KELP2180 with MIM DPS controller	N	KOD_KELP2180_DPS	14 X 17 IN 14 X 14 IN 11 X 14 IN 8 X 10 IN
KODAK KELP2180 with with 'dicom print spooler model 100', 'Printer interface unit' or the 'DICOM print server' controllers	N	KOD_KELP2180_PIU	14 X 17 IN 14 X 14 IN 11 X 14 IN 8 X 10 IN

Kodak MLP-190	N	KOD_MLP190	14 X 17 IN
KODAK XLT7720	N	KOD_XLT7720	11 X 11 IN A size
Sterling DI400	N	STE_DI400	14 X 17 IN
Sterling LP400	N	STE_LP400	14 X 17 IN 11 X 14 IN 8 X 10 IN
Sterling SIJ100	N	STE_SIJ100	14 X 17 IN 8 X 10 IN
Sterling SIJ400	N	STE_SIJ400	14 X 17 IN 8 X 10 IN

Available printers

The following is the set of printers and their main characteristics that are available but not tested by the integration engineering team. This means that they can be used, but the configuration for this printer might require one or more modifications. Use these printers only after consulting with the integration engineering group. The tested configuration files for the Fuji printers will become available in the VIPS.1.1.06 software.

Printer	MG3 layout support	CCM code	Filmsizes
Codonics NP1600	N	COD_EP1600	8.5 X 11 IN 8.5 X 9 IN 8.5 X 11.5 IN 9 X 11.5 IN
Codonics NP1660	N	COD_EP1660	8.5 X 11 IN 8.5 X 9 IN 8.5 X 11.5 IN 9 X 11.5 IN
FUJI FL-IMD	N	FUJ_FL-IMD	14 X 17 IN 14 X 14 IN 11 X 14 IN
FUJI IM2636	N	FUJ IM2636	11 X 14 IN
FUJI IM3543	N	FUJ IM3543	14 X 17 IN
FUJI FM-DPL	N	FUJ_FM-DPL	14 X 17 IN 14 X 14 IN 11 X 14 IN
FUJI CR-DP	N	FUJ_CR-DP	14 X 17 IN 14 X 14 IN
Konica 10x12	N	KON 10X12	10 X 12 IN
Konica 11x14	N	KON 11X14	11 X 14 IN
Konica 14x17	N	KON 14X17	14 X 17 IN
Konica 8x10	N	KON 8X10	8 X 10 IN
Konica LI10/LI21	N	KON_LI20	14 X 17 IN 14 X 14 IN 11 X 14 IN 10 X 12 IN 8 X 10 IN
Konica DRYPRO 722	N	KON_722	14 X 17 IN 14 X 14 IN 11 X 14 IN 10 X 12 IN 8 X 10 IN

Printer memory

As the images that are created for printing use a considerable amount of memory, a memory upgrade for your printer might be necessary. Additionally, some printers might not have enough memory to rotate an image. At this moment, there is no option to specify that the rotation of the image should be done by the Processing Station.

Photographic representation

The photographic representation for the printers cannot be specified and is fixed to ‘Monochrome 1’. If a printer only supports ‘Monochrome 2’, it cannot be used with this

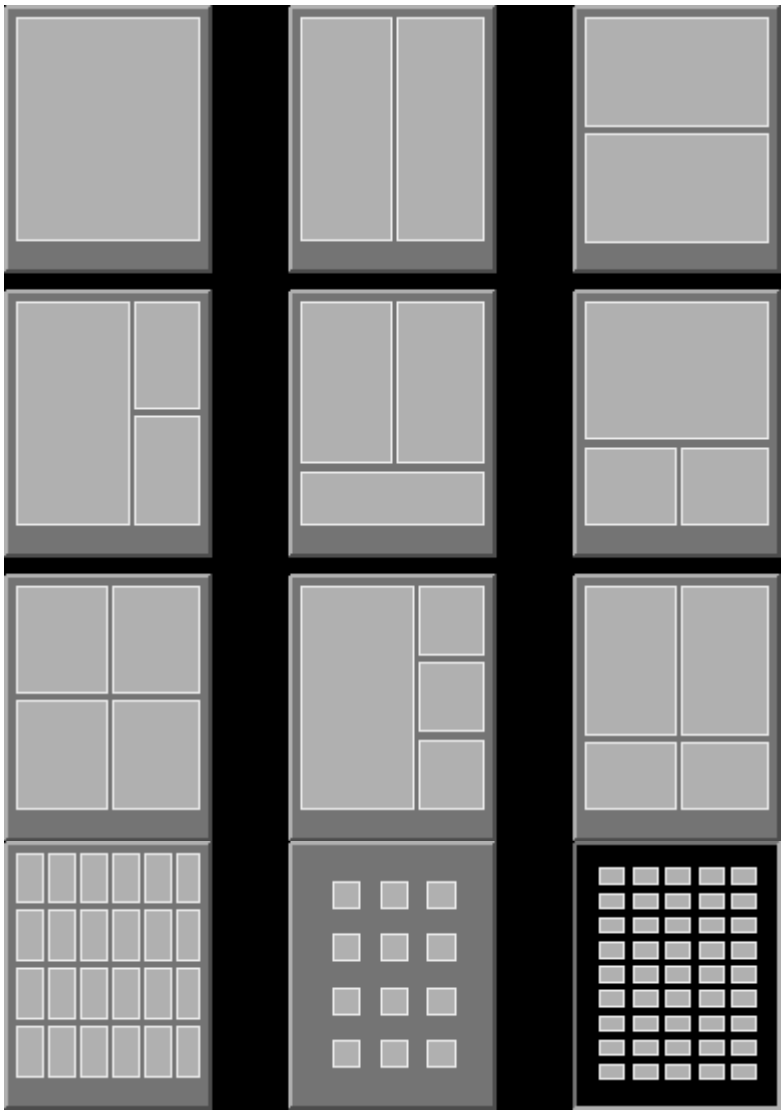
software version. Only the Sterling LP400 is known to have this problem at the moment. Normally, a new software version for this printer is available.

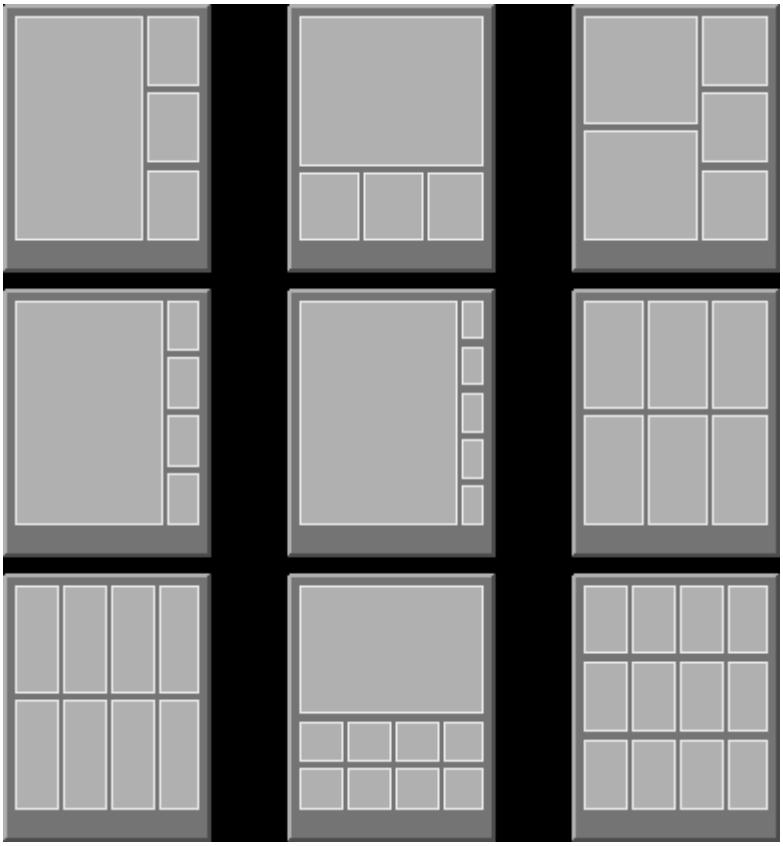
Printer configuration
Normally, configuration can be done via the CCM tool (≥ 1.1.04). For this, two new fields were added to the hardcopy table. The first one indicates whether or not the printer supports 'mg3 layouts'. The second field indicates which model the printer is.

The actual printer definition files are placed in the directory
'`/home/mimosa/irc/local/Hardcopy/printers`'.
`$END`

Default layouts

The following are the default layouts available to the user when the software is freshly installed:



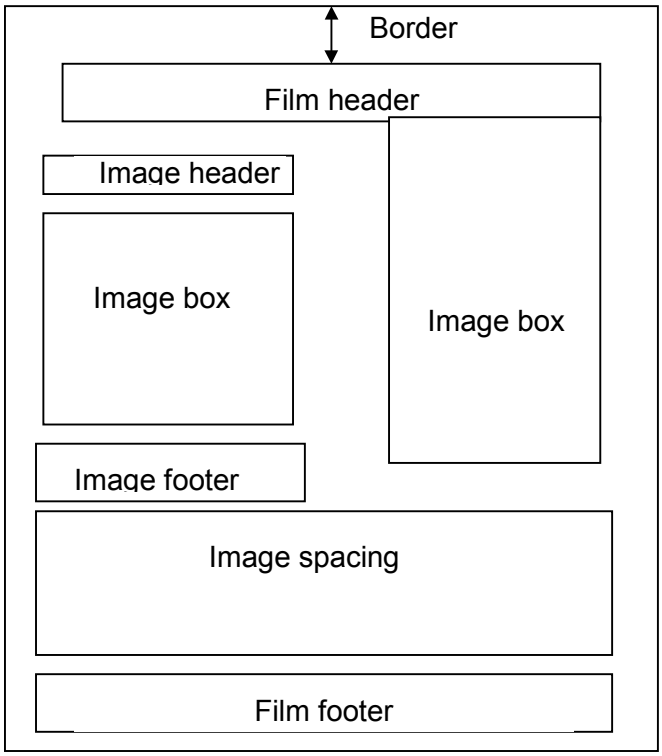


Editing layouts

The default layouts provided in the user interface can be modified or extended with a tool accessible to all via the system module (layout editor → see user manual for more information). This data is kept in the following file:

`/home/mimosa/irc/local/Hardcopy/layout_files/layout.txt`

Configurable film layout fields:



Upgrading
All the data files for the smart print are located in the '`/home/mimosa/irc/local/`' directory. This means that they are kept over an upgrade. If for some reason you require the data as supplied with the software, they are available in the directory '`/home/mimosa/irc/data/hardcopy/`'. The software does however not use the data from this directory. It has to be in '`/home/mimosa/irc/local/`'.

Half resolution printing
A possibility to improve the performance and system load of printing is by sending the image on half the resolution and having it interpolated by the printer.
The advantage is clear: lower resource usage on workstation and network
The disadvantages are:
· Possible quality loss.
· Reduction of the image in the workstation to fit the specified layout,
followed by interpolation of image to use full resolution in the printer
· The fonts get interpolated as well, resulting in not so nice looking characters.
For specifying this way of working adapt the printer specification file, so that all image dimensions are exactly half their actual value. Remember to specify in the printer specification file the desired interpolation as well.

Having more than one description for the same printer
It is perfectly possible to have more then one description for the same printer. It is even possible to use them together by specifying two different printers with all the same parameters except for the printer model. A good example of this is the LR5200. You can see that in the provided list of printers the LR5200 is available as well as the LR5200HR. This last file contains the specification for the LR5200 but in High Resolution mode. By making these two descriptions available the user can interactively decide which printing resolution he want's to use. For the printing of slides, for example, it is better to use high-resolution printing to obtain the best possible result.
Creative use of multiple specification files can lead to an increase in the interactive options available to the user.

Appendix C: ADB tool

ADB (Agfa Dicom Bridge) in VIPS/DIPS from version 1.1.05

VIPS/DIPS software contains ADB version 1.6.
This has been successfully tested for some basic functions of ADB with all supported transfer syntaxes. Due to the complex functionality of ADB a complete test is almost impossible.

The purpose of ADB is to modify outgoing DICOM streams to deal with shortcomings or interoperability problems while interfacing the ADC workstation to PACS or other (non Agfa) workstations.

ADB Version 1.6 is capable to modify the DICOM message according configuration made in the so called DATABASE.TXT file.

The program is located in the /home/mimosa/irc/adb directory.

It consists of five (5) components:

adb	(the program)
DATABASE.TXT	(the configuration file/database)
CR-IMG.DEF	(the DICOM definition for CR storage)
autoadb	(start up file for adb)
Adb_man16.doc	(Word document with User Guide)

Quick reference to use DICOM Bridge from VIPS 1.1.05.

a) Create a database.txt file with the PC configuration tool as described in the documentation of ADB. Do not enable logging when the ADB usage is permanent. It will create large log files, filling up the file system.

b) Add manually the complete path for the definition file in the database.txt (e.g.: ***/home/mimosa/irc/adb/cr-img.def)***
Copy this file into the /home/mimosa/irc/local directory.

c) Change the permissions to the file:

chmod 777 database.txt

d) Copy this file into the home/mimosa/irc/adb directory. Change the name from lower case to upper case.

cp /home/mimosa/irc/local/database.txt /home/mimosa/irc/adb/DATABASE.TXT

e) Edit the desktop profile to start ADB on mimosa login (vi .dtprofile) you have to be superuser (su -> password = adcroot).

f) Add the following line to the end of .dtprofile:

/home/mimosa/irc/local/autoadb &

g) Give the correct permissions to:
chmod 777 /home/mimosa/irc/local/autoadb
and to
chmod 777 /home/mimosa/irc/adb/cr-img.def

h) Modify the Archive destination(s) (in the cpf file) to connect to the ***localhost*** (: i.e. delete all AS from the network table, they only have to be configured in the application table with the IP address of the VIPS and to be mentioned in the devices table; give them the port, used for comunication between VIPS and ADB = higher than 5000 - VIPS itself stays configured on port 104; the port for the AS = listening port of AS, is defined in the database.txt via windows configurator tool)

i) Reboot workstation

j) Check that ADB is running with ***ps –A*** or ***ps –A | grep adb***
- look for *adb* in list of running processes

k) Check that the transmission is behaving as planned!

After upgrade or installation of back up, repeat steps d) till k)

Section 10

2.7
Software Installation
Upgrade to PRID1.1.11

DD+DIS238.00E

Order-No.: DD+DIS238.00E

1 Piece T86LZ MA1

August 2000

ADC
System Components

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC System Components

Upgrade from PRID 1.1.07 to PRID 1.1.11
and
Upgrade from PRID 1.1.10 to PRID 1.1.11

List of Contents

printed in Germany

1 General Information

1.1 Software Prerequisites:

ADC Compact Digitizer:	≥ COP_1215; (CM+9.5145.1050.2)
ADC Solo Digitizer:	≥ SOL_1108; (CM+9.5155.1050.2)
ADC Compact Processing Station – MIMOSA SW:	≥ VIPS1.0.09

1.2 Main Changes in PRID 1.1.11*

- bugfixes for worklist and RISlink
- introduction of new cassette types

* For further details see points 3, 4, 5, 6, and 7 of this document.

1.3 Required Time for the Upgrade

Less than 15 minutes.

1.4 Order No.: EB+4406.0731

Scope of delivery of software upgrade kit PRID 1.1.11

- 1 x CD ROM — PRID 1.1.11
- 1 x Floppy disk — Language files LNG.1.0.05 for PRID ≥ 1.1.05
- 1 x Documentation — Upgrade procedure (DD+DIS238.00E)
- 4 x License card — For Identification SW, for Preview SW, for RIS-link Toolkit SW, for Auto-routing SW

1.5 Released Options

The following table shows the released options.

OPTION	Released	New in PRID 1.1.11
ADCC ID SW	YES	No
ADCC Preview SW	YES	No
ADCC RIS-Link Toolkit SW	YES	No
ADCC Auto-routing SW	YES	No

2 Upgrade Procedure of PRID 1.1.11

Installation Procedure

No.	Procedure Steps	Display / Comment
1.	Stop PREVIEW & IDENTIFICATION application if running.	
2.	Make a backup of the complete current “C:\prid” directory somewhere on the hard disk (just to be sure).	
3.	Insert CD ROM with PRID 1.1.11. The “Install Wizard” starts automatically. If not, eject and insert the CD ROM once again.	Window *"Welcome"* appears.
4.	Select <Next>	Window "*User Information"* appears.
5.	Fill in Name and Company and select <Next>	
6.	Enter the new license number for the ADCC Preview SW and / or ADCC ID SW	Window "*Choose Destination Location"* appears.

Edit the license number written on the license card coming with PRID 1.1.11 for the ID-Station SW. The application will not run without that number.

7.	Select destination folder **C:\prid** and select <Next>	Window *“Start copying files”* appears.
8.	Select <Next>	Installation starts. Window *“Setup complete”* appears.
9.	Select <Finish>	A DOS screen appears, before the adc.cpf file will be parsed. Press any key to continue. ☞ With WINDOWS 95 close the DOS box manually.
10.	Press any key to continue.	Window *“Install Java Runtime Environment 1.1.8”* appears.
11.	Select <Yes> to continue.	Window *“Welcome”* appears.
12.	Select <Next>	Window *“Software license agreement”* appears. With WINDOWS 95: if asked to install WINSOCK2, answer <no>.
13.	Select <Yes>	Window *“Select components”* appears.
14.	Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **C:\prid\java** and select <Next>	Window *“Question”* might appear.

No.	Procedure Steps	Display / Comment
15.	*Select* <Yes> to overwrite the contents of this directory.	Window *"Start copying files"* appears.
16.	*Select* <Next>	Window *"Setup complete"* appears.
17.	Select <Finish>	
18.	Eject the CD ROM	
19.	Start the Preview&Identification application.	The first time PRID 1.1.11 starts, you are asked for the site information. Please fill it in or change it if required. This window will not appear any more.
20.	If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.	

3 Solved Problems from PRID 1.1.10 to PRID 1.1.11

- If the ID-screen was minimized manually, it did not pop up on insertion of a cassette. With PRID.1.1.11 a small window pops up telling you to maximize the ID-screen. However, it is not possible to directly open the minimized ID-screen due to restrictions in Java.
- Sorting of the worklist entries is possible on every column now (even on the first one).
- It can be configured which field should be selected first in the ID-screen when a cassette is inserted. This works now also for fields that provide a selection list (e.g. Radiologists).
- If in the worklist an entry was searched for by pressing the first character and no entry was found the cursor jumped to the first entry in the worklist. This was very annoying. Now the cursor remains where it was.
- All items coming from RIS on series level were refused. Instead, defaults were used (e.g. laterality, body part, cassette orientation, sensitivity, ap/pa, destinations, etc). Now all items coming from RIS are accepted.
- UI With Ris: if radiologist, exam, ... attribute is not available from RIS, the ID-screen displayed the first entry from the selection list. This is changed now in a way that always the last entry is displayed (like it was in PRID.1.1.07).
- In the Preview the menu item “Change Language” has been added.
- The “Time Host” feature does work now.

4 Solved Problems from PRID 1.1.07 to PRID 1.1.11

If you upgrade from PRID 1.1.07 to PRID 1.1.11 the following problems are solved in addition to the ones mentioned in point.

- Selecting from patient list dicom work list and ascii work list with a character key does fully work now.
- Using Service Pack 5 for NT together with Pentium III caused problems in auto-detecting a cassette. This is solved now.
- The window size of the worklist window is kept within a session.
- Communication problems with ID-tablet solved. The default baudrate has been reduced to 57600. However this does not have an noticeable impact on the speed of writing data to chip. It only makes the transmission more stable.
- Called and calling AE_title are configurable now. The called AE_title is configured through the RIS-settings dialog, the calling AE_title is taken from the cpf-file.
- All characters from code page 850 are converted correctly know into Unicode.
- Pressing the key combination ALT+TAB is now interpreted according to the general Windows rules (switch tasks) and not as a normal keystroke anymore.
- The “Please remove cassette” dialog box stays always in front now. Thus it is avoided that it blocks the PRID application if the window is not reachable to close it by a mouse click.
- Selecting a patient record from the History list by means of the mouse is improved now.

5 What's new from PRID 1.1.10 to PRID 1.1.11

- Support of cassettes with asymmetric scan size. This cassettes require a special initialization in the initialization menu. This has been introduced with PRID.1.1.11. Please note that asymmetric scanning requires a certain digitizer software (for ADC COMPACT → COP_13xx and for ADC SOLO → SOL_12xx). If you do not have that software installed, the cassette will be refused by the digitizer.
- Support of mammography cassettes. This cassettes require a special initialization in the initialization menu. This has been introduced with PRID.1.1.11. Please note that mammography cassettes require a certain digitizer software (for ADC COMPACT → COP_13xx and for ADC SOLO → SOL_xxxx). If you do not have that software installed, the cassette will be refused by the digitizer.
- Reloading of the worklist also works now with worklist based on an ASCII file.

6 What's new from PRID 1.1.07 to PRID 1.1.11

If you upgrade from PRID 1.1.07 to PRID 1.1.11 the following new functionality is available in addition to the ones mentioned in point xxx.

- The column according which the DICOM worklist should be sorted can be configured now.
- It is configurable know if the RIS system is contacted after every cassette insertion or just after the first time or on demand. This is done by means of the RIS settings dialog.
- RIS-setting dialog is expanded for an option to select whether the RIS should be called for each cassette in "Study/Link" mode or not. It can be selected by means of the option "`When running multiple mode`".
- Time zone settings from NT / Win95 / Win98 are used. Therefore it has completely been removed from the PRID-software. Thus Daylight Saving Time is handled according to the operating system used.
- Ftp-Server and NetMeeting are delivered on the PRID-CD now.
- In the DICOM worklist a "hide/unhide" button is introduced to show or hide the already selected patients from the worklist.
- A "Delete all" button is introduced in the patient list.
- In the RIS settings dialog the version of the patient data file can explicitly be chosen. This will then override the version in the data file.

7 Known Bugs not solved yet (PRID 1.1.11)

- If no data is entered in the birth date field in the ID-screen it will default to 01-01-0001.
- License numbers are not kept over an upgrade to PRID1110. They have to be re-entered during / after installation.
- The history list is not refreshed right away if an item is deleted.
- Logfiles cannot be deleted from the Service Menu of the ID-application. If necessary this has to be done via NT-Explorer.
- When receiving images, the license window is minimized and is not accessible anymore. Before you license any option make sure that nobody is sending images to that PRID-Station.

(divider)

Section 10

2.8
Software Installation
Upgrade to VIPS 1.1.09

DD+DIS334.00E

MEDICAL IMAGING
CSO Customer Support Operations

Technical Documentation

Order-No.: DD+DIS334.00E

1 Piece UJHSB MA1

January 2001

ADC System Components

Processing Station

Modification Instructions

Please file this document in section 10
of your Technical Documentation ADC System

Upgrade from VIPS.1.0.09 to VIPS.1.1.09
and
Upgrade from VIPS.1.1.05 to VIPS.1.1.09

List of Contents

printed in Germany

AGFA

1 General Information

1.1 Software Prerequisites

ADC Compact Digitizer:	≥ COP1215,
ADC Solo Digitizer:	≥ SOL1108
PRID (Preview & Identification SW):	≥ PRID1.1.07

1.2 Main Changes in VIPS.1.1.09*

- collimation frame: white instead of black
- display images correctly when first loaded into smart print
- annotation problem fixed
- measurements on HR FL/FS fixed
- print / sent flag for FL/FS fixed
- sent flag for hold fixed
- image rotation possible on workstation for low memory non-MG3 printers
- collimation problem fixed
- printer definition file installation via maintenance menu

* For further details see points 3, 4, 5, and 6 of this document.

1.3 Hardware Prerequisites

The experience has shown that 128 MB RAM is the absolute minimum for the Processing Station. However, for a good performance (UI speed, UI stability) 192 MB RAM memory is recommended. The Processing Stations coming from AGFA are equipped with 256MB RAM. This guarantees that the Processing Stations are working well with SW-Options with high RAM utilization (e.g. ADCC Full leg / spine SW) as well.
The system is only tested with 27 GB hard disk space for images. AGFA does not guarantee a smooth working if more hard disk space for images is used.
As the swap space has been increased at least a 2 GB HD is needed to store the Operating System and the Application plus approximately 180 images.

1.4 Released Options

So far the following options have been released:

OPTION	Released	New in VIPS1109/PRID1111
Interactive processing SW	Yes	No
ADCC Autorouting SW	Yes	No
ADCC Uro Tomo SW	Yes	No
ADCC Pediatric SW *	Yes	Yes
ADCC Dental SW *	Yes	Yes
ADCC Full leg / spine SW	Yes	No
ADCC Smart Print SW **	Yes	No
ADCC Annotation SW	Yes	No
ADCC Black Border SW	Yes	No
ADCC Dose Monitoring SW	Yes	No
ADCC Auto QC SW	Yes	No
ADCC Dicom Store Connection SW	Yes	No
ADCC Softcopy Toolkit SW	Yes	No
PS5000 upgrade to ADCC	Yes	No
ADCC PRID on UNIX SW	No	No

* To add exams for this licenses, you have to use CCM 1.1.04 or higher.

** The former options “ADCC Overview Printing SW” and “ADCC Slide Printing SW” are replaced by one Software package “ADCC Smart Print SW”

1.5 Release Environment

These versions on the hardcopy devices and the IMPAX Stations (and subsequent releases respectively) guarantee that all functions on the Processing Station are supported properly. Other combinations have not been tested and may result in restrictions in functionality.

LR5200	≥ LTP01901
LR5200 Controller	≥ AOS32946 /C ≥ CAD32946 /C ≥ ECU32947 /C
DICOM	≥ DCM2.3.4/C
IMPAX	≥ R3.5_v.2.4.0/C

1.6 Performance - Image Input Rate

A Processing Station can handle an input of 140 images scanned with standard resolution. This means that one Processing Station is able to handle two ADC Compact Digitizers at full load under the following conditions:

- The images are standard resolution.
- There are not more than 27GB memory space for images hooked to the Processing Station.
- Only the “Online Hardcopy” output is used.

It is also possible to connect maximum three ADC Compact Digitizers to one Processing Station. However, this reduces the possible workload on each digitizer accordingly. It is not recommended to connect more than three Digitizers to one Processing Station.

1.7 Scope of delivery Software Kit VIPS.1.1.09

Order No.: EB+44060722

2	CD ROM:	MIMOSA VIPS1.1.09 + MIMOSA OS AGOS.A.0.6.03
1	Floppy disk	Upgrade support floppy
1	Floppy disk	Language disk LNG1.0.05 for the (V)DIPS Software ≥ DIPS1.0.03
1	Floppy disk	Empty disk, necessary for the upgrade procedure
2	DAT-tapes	Necessary for the backup of the system disk
5	Floppy disks	CCM tool version 1.1.05
1	Floppy disk	ADB configuration tool with documentation
1	Floppy Disk	Printer definition files
1	Documentation	Upgrade procedure
1	Documentation	Printer definition files installation

1.8 Required Time for the Upgrade

The upgrade itself takes max. 90 minutes (depends strongly on the speed of the CD ROM drive). The upgrade can be done with or without saving and restoring the images from the System Disk. It takes about 50 minutes / 100 images to save them to and restore them from DAT-tape (calculated with an average image size of 5.9MB).

Example for a 2.1GB system disk:
90 min for mere upgrade + 100min for 200 images = 190min = 3hours 10min

Example for a 4.2GB system disk:
90 min for mere upgrade + 260 min for 520 images = 330min = 5hours 30min

Reduce the upgrade time as far as possible. Remove all the images (also OFLS) the customer does not need any more on the Processing Station.

1.9 Useful Accessories

Cleaning tape
DAT-tape Necessary if “Offline” images have to be saved.

For detailed information on Smart Print option and ADB tool, please refer to the upgrade instructions of VIPS 1.1.05 (Section 10; chapter 2.6 of your technical documentation DD+DIS198.00E)

2 Upgrade Procedure

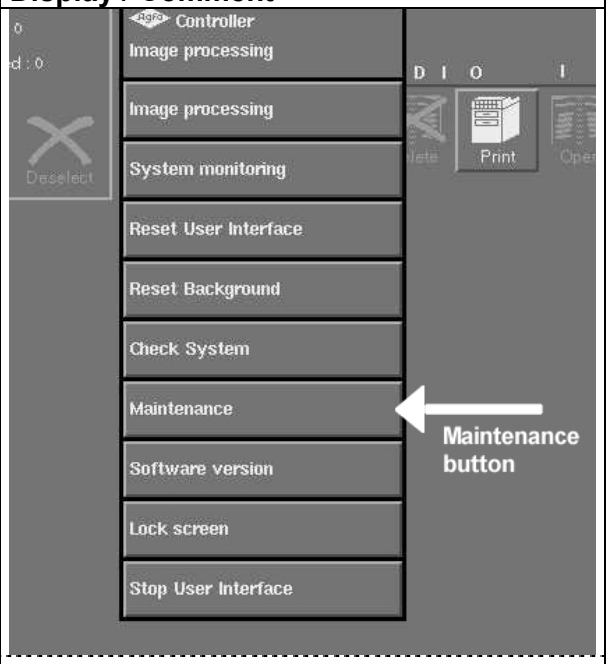
2.1 Preparing Actions

Steps 1 – 4 are only necessary if the images on the system disk are needed again after the upgrade.

No.	Procedure Steps	Display / Comment
1.	Insert cleaning tape into DAT-tape drive and wait until it is ejected again.	
2.	As the backup of the images can take very long (approx. 25min/100images) remove no more needed images from the Processing Station	
3.	Check if the DAT-tape drive is accessible: • Switch on DAT-tape drive • go to **`Maintenance`**, enter password and hit **`<Return>`** Type: **4** to select **`Tools`** and hit `<Return>` **1** to select **`Terminal`** and hit **`<Return>`**	`A new terminal window appears.`
4.	Enter **`mt -f /dev/rmt/0lb rewind`** in the terminal window.	If you get no response and just return to the prompt everything is ok. If you get the response "`No tape loaded or drive offline`" everything is ok. If you get the response "`No such device or address`" the DAT-tape drive is connected on the wrong SCSI connector on the rear of the Processing Station. Please shut down the Processing Station and connect your DAT-tape drive

If the DAT-tape drive is not connected to the correct SCSI port, the backup and restore of the images will fail.

5.	Save "Offline images" to DAT-tape. If they are not needed anymore skip this step. Time to save is approx. 25 minutes / 100 OFL images.	

No.	Procedure Steps	Display / Comment
6.	go to **<Maintenance>**, enter password and hit `<Return>`	
7.	Select: **3** to select **Repair** and hit `<Return>` **6** to select **ImportExport** and hit `<Return>` **4** to select **DirList** and hit `<Return>`	
8.	Insert an empty DAT-tape into the DAT-tape drive. Make sure that the write protection is off on the DAT-tape	
9.	Select: **5** to select **Save** and hit `<Return>` **q** to exit this menu and hit `<Return>`	
10.	Check and write down the current hostname, current ip-address and netmask of the Processing Station. This data will be needed during the software upgrade.	
11.	go to **<Maintenance>**, enter password and hit `<Return>`	
12.	Select: **3** to select **Repair** and hit `<Return>` **4** to select **SystemInfo** and hit `<Return>`	

No.	Procedure Steps	Display / Comment

13.	Move to the section "`Workstation Networking Environment`" in the system information. The following information should appear:	....
		`----- Workstation Networking Environment -----`
		`Workstation : vips220 192.9.200.220`
		`Broadcast : - 192.9.200.255`
		`Netmask : - 255.255.255.127`
		....

14.	Write down the Hostname of the Processing Station (= Workstation) (in the above example "**`vips220`**").	
15.	Write down the IP address of the Workstation (in the above example "**`192.9.200.220`**").	
16.	Write down the Netmask of the Processing Station (in the above example "**`255.255.255.127`**"). ☞ This field maybe empty if no subnetting is done.	
17.	Select: **q** to exit this menu and hit **`<Return>`**	

☞ Steps 18 - 25 are only required with version MIMOSA DIPS1.0.03. They are not needed if version MIMOSA VIPS1.0.05 or higher is installed on your Proc. Station.

18.	Insert the "UPGRADE SUPPORT" floppy"	
19.	go to **<Maintenance>**, enter password and hit **`<Return>`**	
20.	Select: **4** to select **Tools** and hit **`<Return>`** **7** to select **FloppyDir** to mount the floppy and hit **`<Return>`** **1** to select **Terminal** and hit **`<Return>`**	A new terminal window appears
21.	Enter **`/floppy/floppy0/install.csh`**	`OK to continue`
22.	Enter **`yes`**	
23.	Enter **`eject floppy`** in the terminal window	
24.	Enter **`exit`** in the terminal window	
25.	Select: **`q`** to exit this menu and hit **`<Return>`**	

2.2 Upgrade VIPS 1.1.09

No.	Procedure Steps	Display / Comment
1.	go to **<Maintenance>**, enter password and hit **<Return>**	
2.	Select: **2** to select **Install** and hit **<Return>** **2** to select **Software** and hit **<Return>** **3** to select **Upgrade** and hit **<Return>**	If the question „Remove all OFL-files" appears answer it with **yes**

Step 3 can be skipped if the current images are not needed anymore after the upgrade.

3.	Insert an empty DAT-tape into the DAT-tape drive and wait until the green LED on the DAT-tape drive stops flashing.	Enter "yes" if the current images are still needed after the upgrade. Saving images to DAT-tape can take very long (approx. 25min/100images). Enter "skip" if the current images are not needed anymore after the upgrade. Ok to continue [yes, no, ?, q]:
4.	Enter **yes**	SaveArea backup on floppy or tape [floppy, tape, ?, q]:
5.	Enter **floppy**	Put floppy into drive and hit <return>:

Do not enter "tape" → Due to a software bug this crashes the upgrade procedure.

6.	Hit **<Return>**	Ok to reboot from cdrom [yes, no, ?, q]:
7.	Enter **yes**	
8.	Insert the CD ROM with AGOS.A.6.03 into CD ROM drive	Mount bootable CDROM
9.	Hit **<Return>**	
10.	Booting from CD ROM takes about 5 minutes	
11.	Select: **2** to select **Install** and hit **<Return>** **2** to select **Software** and hit **<Return>** **3** to select **Upgrade** and hit **<Return>**	Use the floppy as JumpStart floppy [yes, no, ?, q]:

No.	Procedure Steps	Display / Comment
12.	If the floppy is still in the drive, enter **no**	`Install O.S. software from ./SYSTEM/ AGOS.A.6.01 [yes,no,?,q]:`
13.	Enter **yes**	The Solaris installation program starts now. The `Solaris Installation Program` window appears
14.	Hit **<Continue>**	The `Identify This System"` window appears
15.	Hit **<Continue>**	The `Hostname` window appears
16.	Enter the old hostname and hit **<Continue>**	The `Network Connectivity` window appears
17.	Hit **<yes>** and hit **<Continue>**	The following window appears only with ULTRA SPARC 1 hardware and if a fast ethernet board is installed. Here you can choose between hme0 **(**= 100mbit/10mbit auto sensing) or le0 (= 10 mbit onboard). We recommend to select hme0. The `Primary Network Interface` window appears
18.	Select **<hme0>** and hit **<Continue>**	The `IP Address"` window appears
19.	Enter the old ip_address and hit **<Continue>**	The `Confirm information` window appears
20.	Check if the entries are correct and confirm by hitting **<Continue>.**	The `Subnet` window appears
21.	Hit **<no>** . If subnetting is used hit **<yes>** and then enter the old subnetmask. hit **<Continue>.**	The `Time Zone` window appears
22.	Hit **<Geographic region>** and hit **<set>**.	The `Geographic region"` window appears
23.	Select **<Local Region>** and **<Time zone>** and hit **<Continue>.**	The `Date and Time` window appears
24.	Modify **<Date>** and **<Time>** if not correct. and hit **<Continue>.**	The `Confirm information"` window appears
25.	Check if the entries are correct and confirm by hitting **<Continue>.**	Successful system configuration is confirmed by the message `"System identification is completed."`

Now the Solaris operating system files are copied to the Processing Station. After about 15 minutes it will be rebooted automatically. After a few minutes the following message is displayed.

```
Please log on as root and enter:
/mimosa.install
```

No.	Procedure Steps	Display / Comment
26.		`Hit <return> to continue`
27.	Hit **`<Return>`**	`vips220 console login:`
28.	Enter **`root`**	`Password:`
29.	Enter password	
30.	Enter newfs –i 16384 –m 2% /dev/rdsk/c0t0d0s7	On the query `Construct a new file system /dev/rdsk/c0t0d0S7 (y/n)?`
31.	Enter **`yes`**	
32.	Enter **`/mimosa.install`**	`OK to run with option upgrade[yes, no, ?, q]:`
33.	Enter **`yes`**	installation takes about 15 – 20 min.

If you want to restore the old images, insert the backup DAT-tape into the drive now (if not already in) and wait until the green light stops flashing.

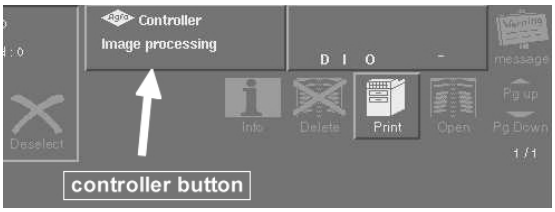
34.		`Restore directory /images from tape [yes, no, ?, q]:`
35.	If you want to restore the old images enter **`yes`** If you do not need the old images anymore enter **`no`**	
36.	Enter **`yes`**	`Install SW from ./MIMOSA/VIPS1109[yes, no, ?, q]:`
37.	Insert CD ROM with **VIPS 1.1.09**	

Steps 38 and 39 appear only if under step 35 the old images from the backup DAT-tape have not been restored.

38.	Insert the floppy with SaveArea backup.	`Choose a SaveArea [?, ??, q]:`
39.	Enter **2** to select **`floppy`**	

Don't enter "`tape`" → Due to a software bug this crashes the upgrade procedure.
Now the ORACLE database files, MIMOSA application files are copied to the Processing Station and the MIMOSA software is initialized with the old configuration data. This takes about 20 minutes

40.		`Ok to reboot:`
41.	Enter **`yes`**	
42.	The Processing Station reboots once again and starts up with the MIMOSA User Interface.	

No.	Procedure Steps	Display / Comment
43.	If the old images do not appear, run a **<Check System>** via the controller button in the MIMOSA User Interface. It can take a while until the new images will show up.	
44.	Eject the DAT-tape and the floppy	

2.3 Installation of the Language Files

With this upgrade the language files are not saved. Therefore they have to be reinstalled.

No.	Procedure Steps	Display / Comment
1.	go to **<Maintenance>**, enter password and hit **<Return>**	
2.	Insert language disk	
3.	Select: **2** to select **Install** and hit **<Return>** **7** to select **Languages** and hit **<Return>** **1** to select **CopyLanguages** and hit **<Return>** **4** to select **FloppyEject** and hit **<Return>**	All Language files will be loaded.
4.	Remove the floppy	
5.	Exit **<Maintenance>**	
6.	Reset the MIMOSA User Interface to get it in the language you had before the upgrade.	

2.4 Finish Upgrade

To finish the upgrade, a customer specific backup has to be made on an empty floppy.

No.	Procedure Steps	Display / Comment
1.	go to **<Maintenance>** and hit **<Return>**	
2.	Insert an empty floppy disk Select: **2** to select **Install** and hit **<Return>** **10** to select **Backup** and hit **<Return>** **1** to select **SiteSpecific** and hit **<Return>**	`Save Area backup on floppy or tape [floppy,tape,?,q]:`
3.	enter **f** for floppy	
4.	After the backup is finished hit **q** to quit.	
5.	Hit **q** again	
6.	Select: **4** to select **Tools** and hit **<Return>** **8** to select **FloppyEject** and hit **<Return>**	
7.	Remove floppy from floppy drive	
8.	Hit **q** to quit Tools menu	
9.	Exit **<Maintenance>**	
10.	Label floppy with backup with the following data and store it in a save place:	

Site specific backup of <*hostname*>	
For Version:	VIPS1109
Name:	<*Your Name*>
Date:	<*Current date*>

2.5 Installation of the "Printer Definition Files"

For the installation of the printer definition files, please see DD+DIS012.01E (part of delivery upgrade kit)

3 Solved Problems from VIPS.1.0.09 to VIPS.1.1.09

- Print / sent / archived flag set correctly.
- Screensaver settings are only defined by means of the cpf-file now. Solaris settings do not interfere any more.
- Problems of "jagged white line" and "black reduced images" are solved by a new collimation algorithm. This also increases the reliability of the collimation algorithm.
- The number of images in the system module always remained "0", no matter if the system was fresh installed or has been used for several days. The algorithm for counting the available images is correct now.
- Sometimes the Print Preview on the Processing Station and the actual deviated from each other. This is solved now.
- Printing / sending of an image with annotations failed. The image was printed without the annotations. This is solved now.
- In some languages the date was followed by a ">". This is solved due to a new Solaris operating system.
- There was no study date filled in into corresponding DICOM field for full leg / full spine examinations. The study date is now filled in correctly.
- Sometimes it was not possible to install UPS software. Now, the UPS software is a part of the MIMOSA release again.
- If the collimation shape "circle" is moved out of the left image border it works OK as well now.
- Printing 30x15 cm cassettes through on-line channel gave minimized images on film. This is solved now.
- After selecting three images and changing the distance between them in "full leg / full spine" software the stitching and annulment buttons were no longer visible. After selecting white images (unexposed for test) the UI crashed. This is solved now.
- When attempting to print a zoomed image and the zoomed area was at the borders of the image the printing crashed. The hard copy was not printed. This did not occur if the zoomed area was in the center or nearby. The problem occurred only with 15 x 30 cm cassettes.
- On systems on which a lot of manually deleted images existed it could happen that the images in the wastebin got a negative number. Autodelete then was not able to delete the images. This is solved now.
- If images were sent through the on-line channel, and could not be delivered successfully, it could block the transmission from the Digitizer to the Processing Station as well. A time-out (default: 5min) has been introduced which can be configured by means of the DICOM_SEND_TIMEOUT_DEFAULT in the cpf-file.
- Statistics in the Infocounter were not correct. Wrong calculations in the Infocounter are corrected now.

The following item is more likely based on misunderstanding than on a software problem:

- Umlaut letters are sorted after "z" in the patient list. Sorting happens according to the installed language. So, as soon as you switch from normal mode to service mode, sorting is done according to the English Language.

4 Solved Problems from VIPS.1.1.05 to VIPS.1.1.09

- collimation frame: "white instead of black" problem fixed
- "detection of best-fit non-MG3 film format" problem fixed
  with unknown film formats the system automatically selects a similar MG3 format.
- "failed online print jobs not transmitted to background for non MG3", problem fixed
  Printing on non-MG3 printers failed when hold flag was set; if printing through online channel failed, the print job was not re-submitted; a manual resent was necessary.
- display images correctly when first loaded into smart print
  a wrong scaling applied to images loaded in smart print because of a misfit of film layouts
- several fixes in the smart print UI
- MG3-layouts scale to fit on non-MG3 printers
  Film layouts for non-MG3 printers offering an MG3-filmsize are now also resized, because there are small differences in film size.
- "IRC_Controller obscuring buttons" problem fixed
- smart print icons do what they are supposed to do
- "non-MG3 dose monitoring" problem fixed
  non MG3 printers did not print the dose monitoring bar into the text field.
- date format DD/MM//YYYY allowed
  the double slash (used in some countries) can be set now.
- annotation problem
  workaround: try to contact virtual frame buffer three times, then switch to regular buffer; this reduces the appearance of the annotation problem drastically.
- "measurements on HR FL/FS" problem fixed
  measurements on full leg/full spine are correct now.
- "print / sent flag and hold flag for FL/FS" problem fixed
  the print/sent flag for full leg/full spine and images with hold status is set correctly now.
- "N-DELETE" problem fixed
  when sending to Solid InkJet a DICOM error message appeared, although the image was sent.
- "printer configuration files not being read" problem fixed
- "line under images in browser" problem fixed
- "collimation" problem fixed
  problems when transmitting images from digitizer to Processing Station due to crashing collimation software (see FSB No. 2, DD+DIS250.00E)
- SUN OS patch introduced to prevent Processing Station from hanging up (Kernel patch 105181-23 or higher).

5 What's new in VIPS.1.1.09

- some improvements on the FL/FS stitched image quality
- image rotation possible on workstation for low memory non-MG3 printers => see printer definition files description.
- printer definition file installation via maintenance menu

6 Open Issues

- Paper formats of Solid InkJet are not supported yet.
- One field test site reported problems with the update of the UI. Image was missing and appeared then together with a later incoming image.
- One field test site reported a problem with printing annotations on the HCP (no reboot or UI reset was necessary).
- L and R sign not in local language.
- Licenses cannot be switched on in DEMO mode by means of the Maintenance Menu. => use "System Monitoring" module.
- Auto QC and test images can only be printed on 14" x 17" film. Test images cannot be sent to non-AGFA DICOM printers.
- Problem with recognizing license number. Message "Invalid license number" appears => Reset UI and enter number again.
- The film destination for FUJI printers is not detected correctly. The only known destinations are "MAGAZINE" and "PROCESSOR". FUJI needs "BIN_i", while "i" is the number of the tray.
- It is not possible to deactivate some film format buttons in the print browser.
- Rotation of an image in print UI when image is mirrored, is not correct.
- Only mg3-printers appear in the print browser in open mode.

7 Printer Set-Up for Smart Print

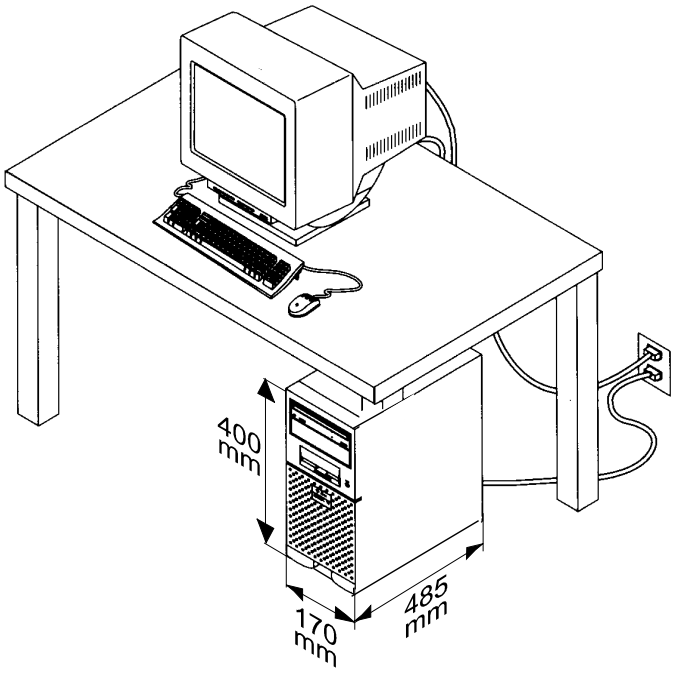
- To make full usage of Smart Print, you have to adapt your AGFA printer. The file pms.ini has to be created/modified. You have to add the following entry to this file.

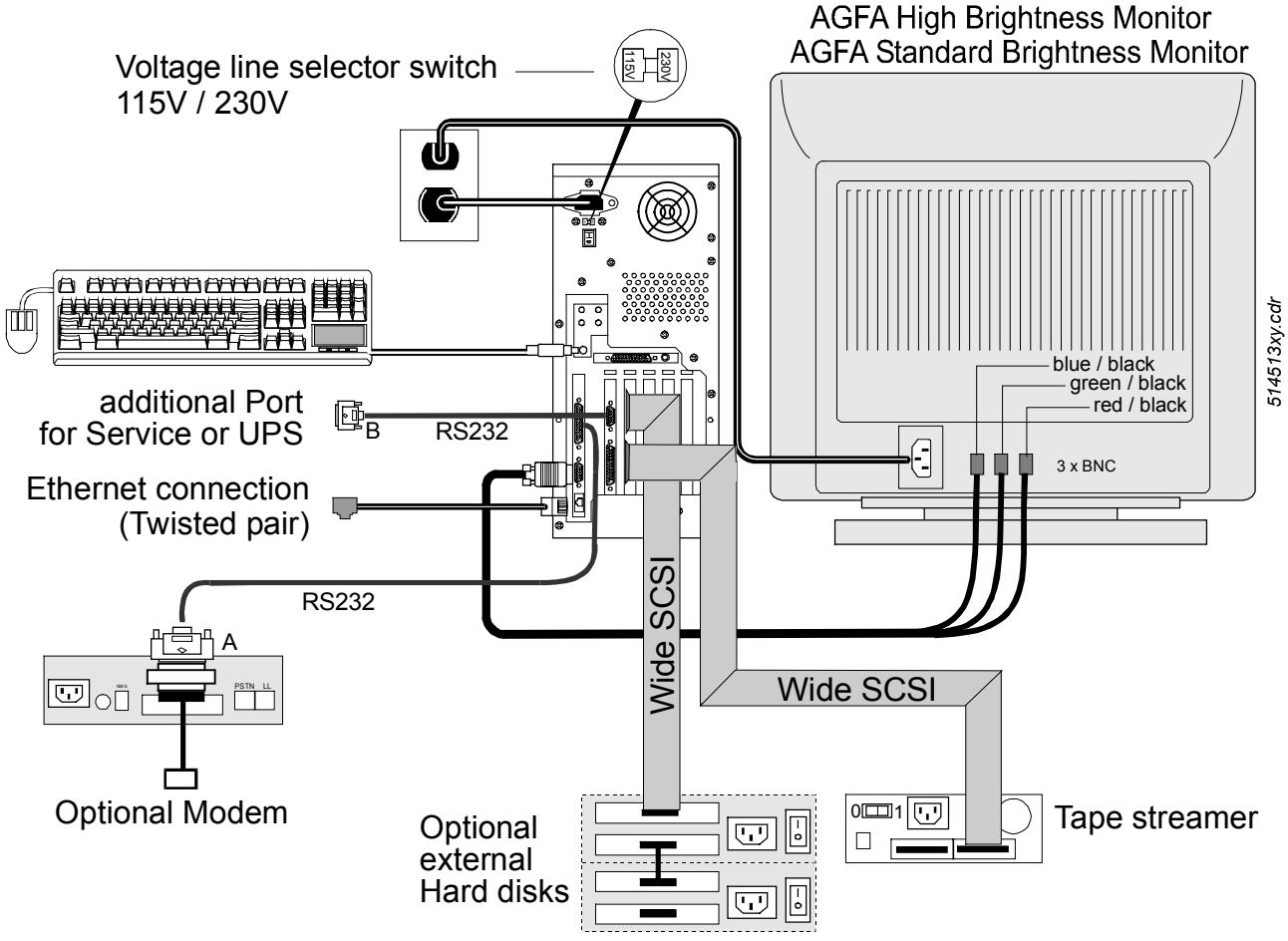
```
[ADC_PS1]
IDF=C:/PMS2000.IDF
```

In the above example the AE-Title of the Processing Station is [ADC_PS1].
For each Processing Station which uses Smart Print you have to create these two lines in your pms.ini file.
Otherwise true size printing will not give true size on film.

Appendix A: Processing Station connection diagram

Please do not use the field service bulletin DD+DIS183.98E as it is wrong. Replace the corresponding page in that field service bulletin with this one.





Section 10

2.9
Software Installation
Upgrade to PRID 1.2.07

DD+DIS069.01E

Order-No.: DD+DIS069.01E

1 Piece UK4HH MA1

ADC System Components
Type 4406

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC System Components

Upgrade from PRID 1.1.10 to PRID 1.2.07
and
Upgrade from PRID 1.1.11 to PRID 1.2.07

List of Contents

printed in Germany **03 / 2001**

1 General Information

1.1 Software Requirements:

If you want to install the new option "Fast Preview", a minimum of 128 Mb RAM on the PRID – Station is required.

License number no longer part of delivery. Have ready the old license number for the installation!

The following software versions are needed to run together with PRID 1.2.07

ADC Compact Digitizer:	≥ COP_13xx
ADC Solo Digitizer:	≥ SOL_12xx
ADC Compact Processing Station – MIMOSA SW:	≥ VIPS1.0.09

1.2 Hardware Requirements

free hard disk capacity on PRID - Station: 18 MB

1.3 Main Changes in PRID 1.2.07*

- Direct ID function supported
- Fast Preview (Precheck) function supported

* For further details see points 3, 4, 5, 6, and 7 of this document.

PRID 1.2.07 supports the new options **Direct ID** and **Fast Preview (Precheck)**.
Requirements for these options:

- PRID 1.2.07 installed on the PRID -Station
- Direct ID / Fast Preview license switched on

For detailed information on Direct ID and Fast Preview see DD+DIS081.01E (part of this upgrade kit).

1.4 Required Time for the Upgrade

Less than 15 minutes.
(without installation of Direct ID / Fast Preview)

1.5 Order Number

EB+4406.0001 PRID 1.2.07 + SOL_1213, incl. documentation

1.6 Scope of Delivery

- PRID 1.2.07
  1 CD-ROM
- SOL_1213
  4 floppy disks (1 x "HD formatter floppy" (boot floppy), 3 x application program floppies)
- 1floppy language files LNG_1005 for PRID ≥ 1105
- 1 empty floppy disk
- 2 upgrade instructions (DD+DIS051.01E, DD+DIS 069.01E)
- 1 description of options Direct ID an Fast Preview (DD+DIS081.01E)

1.7 Released Options

The following table shows the released options.

OPTION	Released	New in PRID 1.2.07
ADCC ID SW	YES	No
ADCC Preview SW	YES	No
ADCC RIS-Link Toolkit SW	YES	No
ADCC Auto-routing SW	YES	No

2 Upgrade Procedure of PRID 1.2.07

Note down the old license number before you start the upgrade!

Installation Procedure

No.	Procedure Steps	Display / Comment
1.	Stop PREVIEW & IDENTIFICATION application if running.	
2.	Make a backup of the complete current “C:\prid” directory somewhere on the hard disk (just to be sure).	
3.	Insert CD ROM with PRID 1.2.07. The “Install Wizard” starts automatically. If not, eject and insert the CD ROM once again.	Window "*Welcome"* appears.
4.	Select `<Next>`	Window "*User Information"* appears.
5.	Fill in Name and Company and select `<Next>`	
6.	Enter the new license number for the ADCC Preview SW and / or ADCC ID SW	Window "*Choose Destination Location"* appears.
7.	Select destination folder **C:\prid** and select `<Next>`	Window *“Start copying files”* appears.
8.	Select `<Next>`	Files are copied. Window *“Setup Complete”* appears.
9.	Select `<Finish>`	A DOS screen appears, before the adc.cpf file will be parsed. `Press any key to continue.` With WINDOWS 95 close the DOS box manually.
10.	Press any key to continue.	Window *“Install Java Runtime Environment 1.1.8”* appears.
11.	Select `<Yes>` to continue.	Window *“Welcome”* appears.
12.	Select `<Next>`	Window *“Software license agreement”* appears. With WINDOWS 95: if asked to install WINSOCK2, answer `<no>`**.**
13.	Select `<Yes>`	Window *“Select Components”* appears.
14.	Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **`C:\prid\java`** and select `<Next>`	Window *“Question”* might appear.

No.	Procedure Steps	Display / Comment
15.	*Select* `<Yes>` to overwrite the contents of this directory.	Window *"Start copying files"* appears.
16.	*Select* `<Next>`	Files are copied. Window *"Setup Complete"* appears.
17.	Select `<Finish>`	
18.	Eject the CD ROM	
19.	Start the Preview&Identification application.	The first time PRID 1.2.07 starts, you are asked for the site information. Please fill it in or change it if required. This window will not appear any more.
20.	If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.	

3 Solved Problems from PRID 1.1.11 to PRID 1.2.07

- ID screen does not pop up when minimized before

4 Solved Problems from PRID 1.1.10 to PRID 1.2.07

If you upgrade from PRID 1.1.10 to PRID 1.2.07 the following problems are solved in addition to the ones mentioned in point 3.

- If the ID-screen was minimized manually, it did not pop up on insertion of a cassette. With PRID.1.1.11 a small window pops up telling you to maximize the ID-screen. However, it is not possible to directly open the minimized ID-screen due to restrictions in Java.
- Sorting of the worklist entries is possible on every column now (even on the first one).
- It can be configured which field should be selected first in the ID-screen when a cassette is inserted. This works now also for fields that provide a selection list (e.g. Radiologists).
- If in the worklist an entry was searched for by pressing the first character and no entry was found the cursor jumped to the first entry in the worklist. This was very annoying. Now the cursor remains where it was.
- All items coming from RIS on series level were refused. Instead, defaults were used (e.g. laterality, body part, cassette orientation, sensitivity, ap/pa, destinations, etc). Now all items coming from RIS are accepted.
- UI With Ris: if radiologist, exam, ... attribute is not available from RIS, the ID-screen displayed the first entry from the selection list. This is changed now in a way that always the last entry is displayed (like it was in PRID.1.1.07).
- In the Preview the menu item “Change Language” has been added.
- The “Time Host” feature does work now.

5 What's new from PRID 1.1.11 to PRID 1.2.07

- New license for Direct ID
- New license for Fast Preview (Precheck)
- Standby menu: New text: "please enter a new cassette in the digitizer" (only with Direct ID)
- For Asymmetric Scansize use CassetteInfoVersion 101
- For Mamo Cassettes use CassetteInfoVersion 101
- Default values for 'Full leg/spine' and 'Study' mode (configurable via debug.ini)
- Modality Worklist: Sorting order is configurable in 'Debug.ini'
- Userinfo field: possibility to use a dropdown list, configuration data in file 'useinfo0.dat'
- GUI-tool: Patient name and first name can be removed from UI
- Cassette orientation: It is possible to define the landscape and portrait name (configurable via debug.ini)
- Direct ID: show hostname of digitizer in main window
- Update of DICOM worklist query in background (first version, configurable via debug.ini)
- Study mode for QS (configurable via debug.ini)

6 What's new from PRID 1.1.10 to PRID 1.2.07

If you upgrade from PRID 1.1.10 to PRID 1.2.07 the following new functionality is available in addition to the ones mentioned in point 5.

- Support of cassettes with asymmetric scan size. This cassettes require a special initialization in the initialization menu. This has been introduced with PRID.1.1.11. Please note that asymmetric scanning requires a certain digitizer software (for ADC COMPACT → COP_13xx and for ADC SOLO → SOL_12xx). If you do not have that software installed, the cassette will be refused by the digitizer.
- Support of mammography cassettes. This cassettes require a special initialization in the initialization menu. This has been introduced with PRID.1.1.11. Please note that mammography cassettes require a certain digitizer software (for ADC COMPACT → COP_13xx and for ADC SOLO → SOL_12xx). If you do not have that software installed, the cassette will be refused by the digitizer.
- Reloading of the worklist also works now with worklist based on an ASCII file.

7 Known Bugs not solved yet (PRID 1.2.07)

- It is not possible to select Danish or Portuguese languages
- Language files Danish and Portuguese are missing
- Language error in history list (transfer) in language files
- Patient Demographic data retrieved from "History" are not written to cassette chip
- Read cassette: imperfection in resize and scroll window
- Problems with dicom worklist: filter criteria do not work correctly
- Intermittently the comment field cannot be entered
- No program start-up without networkconfig
- No lookup function after export
- Patient list can contain more than the max. defined items.
- When the window patient list opens, no field is selected
- No log files item present in Prev service menu
- No identification of RAM memory in counters

Section 10

2.10
Software Installation
Upgrade to PRID 1.2.09

DD+DIS196.01E

Order-No.: DD+DIS196.01E

1 Piece UPODN MA1

ADC System Components
Type 4406

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC System Components

Upgrade from PRID 1.1.11 to PRID 1.2.09
and
Upgrade from PRID 1.2.07 to PRID 1.2.09

List of Contents

printed in Germany **08 / 2001**

1 General Information

1.1 Software Requirements:

If you want to install the new option "Fast Preview", a minimum of 128 Mb RAM on the PRID – Station is required.

License number no longer part of delivery. Have ready the old license number for the installation!

The following software versions are needed to run together with PRID 1.2.09

ADC Compact Digitizer:	≥ COP_13xx
ADC Solo Digitizer:	≥ SOL_12xx
ADC Compact Processing Station – MIMOSA SW:	≥ VIPS1.0.09

1.2 Hardware Requirements

Free hard disk capacity on PRID - Station: 18 MB

1.3 Main Changes in PRID 1.2.09*

- Patch which prevents that an image could get a wrong patient or study assigned.
- Copypatient.ini added to Prid settings directory. Defines the behavior of the attributes used in 'History', 'Recall' and 'Patient list'.
- Newpatient.ini added to Prid settings directory. Defines the attributes to clear with button 'New Patient'.
- Support of non MG3-printers: non-mg3 layout codes.

* For further details see points 3, 4, 5, 6, and 7 of this document.

PRID 1.2.09 supports the new options **Direct ID** and **Fast Preview (Precheck)**.
Requirements for these options:

- PRID 1.2.09 installed on the PRID -Station
- Direct ID / Fast Preview license switched on

For detailed information on Direct ID and Fast Preview see DD+DIS081.01E (part of this upgrade kit).

1.4 Required Time for the Upgrade

Less than 15 minutes.

1.5 Order Number

EB+44060004 PRID 1.2.09 + SOL_1302, incl. Documentation + COP_1308, incl. Documentation

1.6 Scope of Delivery

- PRID 1.2.09
  1 CD-ROM
- SOL_1302
  4 floppy disks (1 x "HD formatter" floppy (boot floppy), 3 x application program floppies)
- COP_1308
  4 floppy disks, (1 x “HD formatter" floppy (boot floppy), 3 x application program floppies)
- 3 upgrade instructions (DD+DIS196.01E, DD+DIS154.01E, DD+DIS121.01E)
- 1 description of options Direct ID an Fast Preview (DD+DIS081.01E)

1.7 Released Options

The following table shows the released options.

OPTION	Released	New in PRID 1.2.09	Remark
			--
ADCC ID SW	YES	No	--
ADCC Preview SW	YES	No	--
ADCC RIS-Link Toolkit SW	YES	No	--
ADCC Auto-routing SW	YES	No	--
ADCC Fast Preview	YES	No	only together with COP_13xx or SOL_12xx or higher
ADCC Direct ID	YES	No	only together with SOL_12xx or higher

2 Upgrade Procedure of PRID 1.2.09

Note down the old license number before you start the upgrade!

Installation Procedure

No.	Procedure Steps	Display / Comment
1.	Stop PREVIEW & IDENTIFICATION application if running.	
2.	Make a backup of the complete current "C:\prid" directory somewhere on the hard disk (just to be sure).	
3.	Insert CD ROM with PRID 1.2.09. The "Install Wizard" starts automatically. If not, eject and insert the CD ROM once again.	Window *"Welcome"* appears.
4.	Select <Next>	Window "*User Information"* appears.
5.	Fill in Name and Company and select <Next>	Window "*License registration"* appears.
6.	Enter the new license number for the ADCC Preview SW and / or ADCC ID SW and select both times <Next>	Window "*Choose Destination Location"* appears.
7.	Select destination folder **C:\prid** and select <Next>	Window *"Start copying files"* appears.
8.	Select <Next>	Files are copied. Window *"Setup Complete"* appears.
9.	Select <Finish>	A DOS screen appears, before the adc.cpf file will be parsed. Press any key to continue... With WINDOWS 95 close the DOS box manually.
10.	Press any key to continue.	Window *"Install Java Runtime Environment 1.1.8"* appears.
11.	Select <Yes> to continue.	Window *"Welcome"* appears.
12.	Select <Next>	Window *"Software license agreement"* appears. With WINDOWS 95: if asked to install WINSOCK2, answer <No>.
13.	Select <Yes>	Window *"Select components"* appears.
14.	Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **C:\prid\java** and select <Next>	Window *"Question"* might appear.

No.	Procedure Steps	Display / Comment
15.	Select <Yes> to overwrite the contents of this directory.	Window *"Start copying files"* appears.
16.	Select <Next>	Files are copied. Window *"Setup Complete"* appears.
17.	Select <Finish>	
18.	Eject the CD ROM	
19.	Start the Preview&Identification application.	The first time PRID 1.2.09 starts, you are asked for the site information. Please fill it in or change it if required. This window will not appear any more.
20.	If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.	

3 Solved Problems from PRID 1.2.07 to PRID 1.2.09

- no lookup function after export is solved
- when window patient list opens, no field is selected is solved
- the 'Initialize' menu does not show the correct cassette data is solved

4 Solved Problems from PRID 1.1.11 to PRID 1.2.09

If you upgrade from PRID 1.1.11 to PRID 1.2.09 the following problems are solved in addition to the ones mentioned in point 3.

- ID screen does not pop up when minimized before

5 What's new from PRID 1.2.07 to PRID 1.2.09

- Patch which prevents that an image could get a wrong patient or study assigned.
- Copypatient.ini added to Prid settings directory. Defines the behavior of the attributes used in 'History', 'Recall' and 'Patient list'.
- Newpatient.ini added to Prid settings directory. Defines the attributes to clear with button 'New Patient'.
- Support of non MG3-printers: non-mg3 layout codes.

6 What's new from PRID 1.1.11 to PRID 1.2.09

If you upgrade from PRID 1.1.11 to PRID 1.2.09 the following new functionality is available in addition to the ones mentioned in point 5.

- New license for Direct ID
- New license for Fast Preview (Precheck)
- Standby menu: New text: "please enter a new cassette in the digitizer" (only with Direct ID)
- For Asymmetric Scansize use CassetteInfoVersion 101
- For Mammo Cassettes use CassetteInfoVersion 101
- Default values for 'Full leg/spine' and 'Study' mode (configurable via debug.ini)
- Modality Worklist: Sorting order is configurable in 'Debug.ini'
- Userinfo field: possibility to use a dropdown list, configuration data in file 'useinfo0.dat'
- GUI-tool: Patient name and first name can be removed from UI
- Cassette orientation: It is possible to define the landscape and portrait name (configurable via debug.ini)
- Direct ID: show hostname of digitizer in main window
- Update of DICOM worklist query in background (first version, configurable via debug.ini)
- Study mode for QS (configurable via debug.ini)

7 Known Bugs not solved yet (PRID 1.2.09)

- It is not possible to select Danish or Portuguese languages
- Language files Danish and Portuguese are missing
- Language error in history list (transfer) in language files
- Patient Demographic data retrieved from "History" are not written to cassette chip
- Read cassette: imperfection in resize and scroll window
- Problems with dicom worklist: filter criteria do not work correctly
- Intermittently the comment field cannot be entered
- No program start-up without networkconfig
- No log files item present in Prev service menu
- No indication of RAM memory in counters

- If no data is entered in birthdate field, PRID def. to 01-01-0001
- No rerouting for Hardcopy unit
- Department field cannot be emptied
- id-date is wrongly written to cassette if timezone dublin is selected
- Physician field does not respond to the copypatient.ini.file
- When PRID shortcut is removed, PRID needs to be reinstalled
- Input locale wrong in counters
- Delimiters birthdate disappears by input
- Editable setting also applicable on chose fields
- No scrollbar in re-routing window
- Locked label not visible when background is white
- RIS window is not closed when canceling directID

- Divider Sheet -

Section 10

2.11
Software Installation
Upgrade to VIPS 1.1.11

DD+DIS142.01E

HealthCare

CSO Customer Support Operations

Technical Documentation

Order-No.: DD+DIS142.01E

1 Piece USYVM MA1

ADC System Components
Type 4406

Modification Instructions

Please file this document in section 10
of the Technical Documentation ADC System Components

Patch from VIPS.1.1.09 to VIPS.1.1.11

List of Contents

printed in Germany 12 / 2001

AGFA

1 General Information

1.1 Software Prerequisites

The Patch VIPS.1.1.11 can only be installed, if you already have **VIPS.1.1.09** installed on the ADC Processing Station (VIPS).

ADC Compact Digitizer:	≥ COP1215,
ADC Solo Digitizer:	≥ SOL1108,
PRID (Preview & Identification SW):	≥ PRID 1.2.09 (It is also possible to work with PRID 1.2.07, but this version includes the safety problem "StudyUID of an Examination combined with wrong Patient Data", so it is strongly recommended not to use PRID 1.2.07)

1.2 Main Changes in VIPS.1.1.11

- **Changing patient demographics in the "Info screen" always results in new Study UID. This was a safety and hazard issue and solved with VIPS.1.1.11 now!**
- Full leg / Full spine images, measurement problems are solved
- The way to change patient data in the "Info screen" changed (see Appendix A)

1.3 Order Number and Scope of Delivery

Order number: EB+44060003

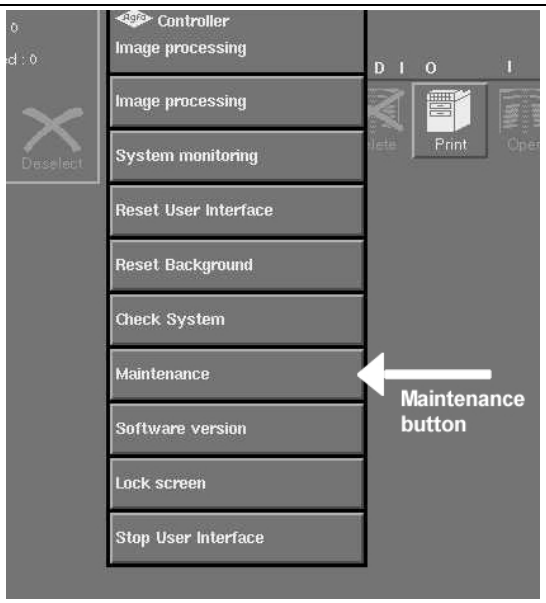
Scope of delivery of Software Kit VIPS.1.1.11:

2	CD ROM	MIMOSA VIPS.1.1.09 + MIMOSA OS AGOS.A.0.6.03
1	Floppy disk	Upgrade support floppy
1	Floppy disk	Language disk LNG1.0.05 for the (V)DIPS Software ≥ DIPS1.0.03
1	Floppy disk	Empty disk, necessary for the upgrade procedure
2	DAT-tapes	Necessary for the backup of the system disk
5	Floppy disks	CCM tool version 1.1.05
1	Floppy disk	ADB configuration tool with documentation
1	Floppy Disk	Printer definition files
1	Documentation	Upgrade procedure VIPS.1.1.09
1	Documentation	Printer definition files installation
1	CD ROM	MIMOSA VIPS.1.1.11
1	Documentation	Upgrade procedure VIPS.1.1.11

1.4 Required Time for the Upgrade

Less than 15 minutes

2 Installation Description of Patch VIPS.1.1.11

No.	Procedure Steps	Display / Comment
1.	Click on the Controller button, select **<Maintenance>**, enter password and hit **<Return>**	
2.	Select: <**4**> to select **Tools** and hit **<Return>** <**1**> to select **Terminal** and hit **<Return>**	Type in the command: **IRC_stop_ui ; IRC_stop_back**
3.	Quit by hitting **<Return>**	
4.	Insert the CD-ROM in the drive and wait for the File Manager to pop up.	If you cannot open CD drive, type in: **eject cd** and hit in this case **<Return>**
5.	Double click in on the icon <**MIM_install_patch**> in the File Manager	
6.	Click **<OK>** without entering any parameter or argument and wait until a second terminal window pops up.	
7.	Proceed with installation	Answer the question **<OK to proceed with installation of ChangingPatientData [yes,no,?,q]>** with typing in **y**
8.	Quit by hitting **<Return>**	
9.	Installation is finished	The message **<Patch ChangingPatientData successfully installed>** is shown.
10.	Close the second terminal window	
11.	Remove the CD-ROM by clicking in the File Manager: **<File> <Eject>**	

No.	Procedure Steps	Display / Comment
12.	Reboot by selecting: <**3**> to select **Repair** and hit **<Return>** <**10**> to select **Add Options** and hit **<Return>** <**2**> to select **Reboot** and hit **<Return>**	

3 What's new in VIPS.1.1.11?

Because of security reasons it is no longer allowed to change patient identification data in the info screen unless under certain conditions.

The change applies only to the selected image in the info screen of which the change was made. Unless the image was copied on VIPS, in that case all copies will be updated.

If patient identification data are changed, all references to the original patient in other fields are automatically removed.

Manual changes in **Editable Patient Identification Information**

- Patient name (lastname)
- Patient first name (firstname)
- Birth date (birthdate)
- Sex (sex)
- Patient ID (pat_code, the database field pat_id is invisible!)

are automatically reflected in a change in all **Other Patient Identification Information**

- Study UID (study_uid)
- Series UID (series_uid)
- Image UID (image_uid)
- Study ID (study_id)

Additional editable fields, image related (pyramids), are:

- RIS ID (RIS_ID, in fact containing the accession number)
- Patient weight, Patient ethnical group, Remark 1, Remark 2, Comment (user_info*)

Appendix A:

Operational Description of Patch VIPS.1.1.11

Changing editable patient identification data will involve following procedure:

- Editable patient identification data fields in the info screen are locked by default
- The user can unlock the fields by pushing a button “Change Patient Info”. As long as the patient info fields are unlocked, the “Update” or “All” buttons at the bottom are not accessible.
- The user can apply then changes in the editable patient identification data fields.
- The user can discard the changes by pushing the button “Cancel Patient Info Changes” or the button “Cancel” at the bottom.
- The user can confirm the changes by pushing the button “Confirm Patient Info Changes” and afterwards the “Update” button at the bottom to confirm the overall info changes.
- On discarding the patient info changes, the original data are restored and the fields are locked again.
- On confirming the patient info changes, the fields are locked but the new data are not stored in the database until the “Update” button at the bottom is pushed.
  Storing the new data means:
    - Introducing a new patient
    - Assigning this patients pat_id to the selected image
    - Assigning the generated values to the selected image and to the new patient

Section 10

2.12
Software Installation
Upgrade to PRID 1.2.11

DD+DIS261.01E

Order-No.: DD+DIS261.01E

1 Piece US1SO MA1

ADC System Components
Type 4406

Modification Instructions

Please file this document in Section 10
of the Technical Documentation ADC System Components

Upgrade from PRID 1.1.11 to PRID 1.2.11
and
Upgrade from PRID 1.2.09 to PRID 1.2.11

List of Contents

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AGFA

1 General Information

1.1 Software Requirements:

If you want to install the new option "Fast Preview", a minimum of 128 Mb RAM on the PRID – Station is required.

License number no longer part of delivery. Have ready the old license number for the installation!

The following software versions are needed to run together with PRID 1.2.11

ADC Compact Digitizer:	≥ COP_13xx
ADC Solo Digitizer:	≥ SOL_12xx
ADC Compact Processing Station – MIMOSA SW:	≥ VIPS1.0.09

1.2 Hardware Requirements

Free hard disk capacity on PRID - Station: 18 MB

1.3 Main Changes in PRID 1.2.11*

- **Patch which prevents that an image could get a wrong patient or study assigned. This was a safety and hazard issue and is solved with PRID 1.2.11 now!**
- Copypatient.ini added to Prid settings directory. Defines the behavior of the attributes used in 'History', 'Recall' and 'Patient list'.
- Newpatient.ini added to Prid settings directory. Defines the attributes to clear with button 'New Patient'.
- Support of non MG3-printers: non-mg3 layout codes.

* For further details see points 3, 4, 5, 6, and 7 of this document.

PRID 1.2.11 supports the new options **Direct ID** and **Fast Preview (Precheck)**.
Requirements for these options:

- PRID 1.2.11 installed on the PRID -Station
- Direct ID / Fast Preview license switched on

For detailed information on Direct ID and Fast Preview see DD+DIS081.01E (part of this upgrade kit).

1.4 Required Time for the Upgrade

Less than 15 minutes.

1.5 Order Number

EB+44060006 PRID 1.2.11 + SOL_1302, incl. Documentation + COP_1308, incl. Documentation

1.6 Scope of Delivery

- PRID 1.2.11
  1 CD-ROM
- SOL_1302
  4 floppy disks (1 x "HD formatter" floppy (boot floppy), 3 x application program floppies)
- COP_1308
  4 floppy disks, (1 x “HD formatter" floppy (boot floppy), 3 x application program floppies)
- 3 upgrade instructions (DD+DIS260.01E, DD+DIS154.01E, DD+DIS121.01E)
- 1 description of options Direct ID an Fast Preview (DD+DIS081.01E)

1.7 Released Options

The following table shows the released options.

OPTION	**Released**	**New in PRID 1.2.09**	**Remark**
			--
ADCC ID SW	YES	No	--
ADCC Preview SW	YES	No	--
ADCC RIS-Link Toolkit SW	YES	No	--
ADCC Auto-routing SW	YES	No	--
ADCC Fast Preview	YES	No	only together with COP_13xx or SOL_12xx or higher
ADCC Direct ID	YES	No	only together with SOL_12xx or higher

2 Upgrade Procedure of PRID 1.2.11

Note down the old license number before you start the upgrade!

Installation Procedure

No.	Procedure Steps	Display / Comment
1.	Stop PREVIEW & IDENTIFICATION application if running.	
2.	Make a backup of the complete current "C:\prid" directory somewhere on the hard disk (just to be sure).	
3.	Insert CD ROM with PRID 1.2.11. The "Install Wizard" starts automatically. If not, eject and insert the CD ROM once again.	Window "*Welcome"* appears.
4.	Select <Next>	Window "*User Information"* appears.
5.	Fill in Name and Company and select <Next>	Window "*License registration"* appears.
6.	Enter the new license number for the ADCC Preview SW and / or ADCC ID SW and select both times <Next>	Window "*Choose Destination Location"* appears.
7.	Select destination folder **C:\prid** and select <Next>	Window *"Start copying files"* appears.
8.	Select <Next>	Files are copied. Window *"Setup Complete"* appears.
9.	Select <Finish>	A DOS screen appears, before the adc.cpf file will be parsed. Press any key to continue... With WINDOWS 95 close the DOS box manually.
10.	Press any key to continue.	Window *"Install Java Runtime Environment 1.1.8"* appears.
11.	Select <Yes> to continue.	Window *"Welcome"* appears.
12.	Select <Next>	Window *"Software license agreement"* appears. With WINDOWS 95: if asked to install WINSOCK2, answer <No>.
13.	Select <Yes>	Window *"Select components"* appears.
14.	Check that both components *"Program Files"* and *"I18N"* are clicked on, and then set path to **C:\prid\java** and select <Next>	Window *"Question"* might appear.

No.	Procedure Steps	Display / Comment
15.	Select <Yes> to overwrite the contents of this directory.	Window *"Start copying files"* appears.
16.	Select <Next>	Files are copied. Window *"Setup Complete"* appears.
17.	Select <Finish>	
18.	Eject the CD ROM	
19.	Start the Preview&Identification application.	The first time PRID 1.2.11 starts, you are asked for the site information. Please fill it in or change it if required. This window will not appear any more.
20.	If the Preview&Identification application works well, delete the backup of the old Preview&Identification software.	

3 Solved Problems from PRID 1.2.09 to PRID 1.2.11

- Problem occurring on ADC QS server in connection with Java library and Dell 530 hardware on ID Station. From PRID 1.2.11 on a new Java library is used!
- After performing a link or a FLFS identification, the patient data in the UI stays locked

4 Solved Problems from PRID 1.1.11 to PRID 1.2.09 / 1.2.11

If you upgrade from PRID 1.1.11 to PRID 1.2.09 / 1.2.11 the following problems are solved in addition to the ones mentioned in point 3.

- ID screen does not pop up when minimized before

5 What's new from PRID 1.2.07 to PRID 1.2.09 / 1.2.11

- Patch which prevents that an image could get a wrong patient or study assigned.
- Copypatient.ini added to Prid settings directory. Defines the behavior of the attributes used in 'History', 'Recall' and 'Patient list'.
- Newpatient.ini added to Prid settings directory. Defines the attributes to clear with button 'New Patient'.
- Support of non MG3-printers: non-mg3 layout codes.

6 What's new from PRID 1.1.11 to PRID 1.2.09 / 1.2.11

If you upgrade from PRID 1.1.11 to PRID 1.2.09 / 1.2.11 the following new functionality is available in addition to the ones mentioned in point 5.

- New license for Direct ID
- New license for Fast Preview (Precheck)
- Standby menu: New text: "please enter a new cassette in the digitizer" (only with Direct ID)
- For Asymmetric Scansize use CassetteInfoVersion 101
- For Mammo Cassettes use CassetteInfoVersion 101
- Default values for 'Full leg/spine' and 'Study' mode (configurable via debug.ini)
- Modality Worklist: Sorting order is configurable in 'Debug.ini'
- Userinfo field: possibility to use a dropdown list, configuration data in file 'useinfo0.dat'
- GUI-tool: Patient name and first name can be removed from UI
- Cassette orientation: It is possible to define the landscape and portrait name (configurable via debug.ini)
- Direct ID: show hostname of digitizer in main window
- Update of DICOM worklist query in background (first version, configurable via debug.ini)
- Study mode for QS (configurable via debug.ini)

7 Known Bugs not solved yet (PRID 1.2.11)

- It is not possible to select Danish or Portuguese languages
- Language files Danish and Portuguese are missing
- Language error in history list (transfer) in language files
- Patient Demographic data retrieved from "History" are not written to cassette chip
- Read cassette: imperfection in resize and scroll window
- Problems with dicom worklist: filter criteria do not work correctly
- Intermittently the comment field cannot be entered
- No program start-up without networkconfig
- No log files item present in Prev service menu
- No indication of RAM memory in counters

- If no data is entered in birthdate field, PRID def. to 01-01-0001
- No rerouting for Hardcopy unit
- Department field cannot be emptied
- id-date is wrongly written to cassette if timezone dublin is selected
- Physician field does not respond to the copypatient.ini.file
- When PRID shortcut is removed, PRID needs to be reinstalled
- Input locale wrong in counters
- Delimiters birthdate disappears by input
- Editable setting also applicable on chose fields
- No scrollbar in re-routing window
- Locked label not visible when background is white
- RIS window is not closed when canceling DirectID